



Environmental  
Engineering &  
Consulting, Inc.

November 30, 1992

(b) (6)

Camas, Washington 98607

Dear (b) (6)

This is an addendum to our Environmental Due Diligence report of November 1992 for Purchase of Silicon Metaltech, Inc. (SMI) at Rock Island, Washington.

Subsequent to preparation of that report, we were able to obtain documents from the Washington Department of Ecology (WDOE) files as follows:

- a.SMI (Lab and Lagoon Sites) Draft Site Hazard Assessment Report dated May 1991, prepared for WDOE by consultants DPRA and SAIC,
- b.Summary score sheet for the lagoon site for the Washington Ranking Method,
- c.Route Score Summary and Ranking Calculation Sheet for the lagoon site for the Washington Ranking Method,
- d.Summary score sheet for the lab site for the Washington Ranking Method, and
- e.WDOE Site Register of August 25, 1992.

The Route Score Summary and Ranking Calculation Sheet for the lab site for the Washington Ranking Method was requested from WDOE Central region office but was not received.

To put this information in perspective, if the WDOE suspects a site as being contaminated, WDOE conducts a Site Hazard Assessment (SHA) usually through a consultant. Document "a" listed above is the SHA for SMI. A site is then scored using the Washington Ranking Method model. Documents "b" through "e" listed above are the scoring and ranking for the SMI "lagoon" and "lab" sites. The scoring and ranking model considers contamination via ground water, surface water and air pathways to human and environmental receptors. If the SHA report revealed contamination, the site will be scored and ranked against other sites on a scale of 1 (relatively high contamination) to 5

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(relatively low contamination) or "no further action." Document "e" listed above is the WDOE statewide published list of sites that have been scored and ranked.

As shown in these documents, the "Lab Site" received a rank of 5 and the "Lagoon Site" received a rank of 4. these rankings are relatively low and as WDOE officials have told us, sites with rankings of 4 or 5 will not receive priority attention from WDOE and may be essentially ignored by WDOE. Only sites with rankings of 1 or 2 will receive priority attention from WDOE because of limited resources and the large number of sites with rankings of 1 or 2.

Much relevant information and data (e.g., various reports at SMI and perhaps at WDOE) were apparently not used in the SHA report and scoring/ranking process. In addition, our review showed that there were a number of errors in the SHA report and scoring/ranking documents. A few examples are:

1. "An old underground storage tank used for PCB oil storage" as cited in the SHA report. This was not correct.
2. No closure report on former underground storage tank as cited in the SHA report. This was not correct.
3. Fume accumulation rate in lagoons was 10,400 tons/year in ranking. this compares to the actual rate of about 4,400 tons/year.

Some errors (such as those noted above, and others that are likely) probably affected the scoring/ranking while others did not. It would probably be beneficial to conduct a detailed review of the scoring/ranking for both sites to correct the scoring/ranking, correct errors in the WDOE files, and resolve discrepancies in the WDOE files. However it may not be appropriate to officially challenge the WDOE ranking since this may direct unwanted attention to the facility. It would also be beneficial to have the sites delisted, i.e., removed from the WDOE contaminated sites list. This should be accomplished for the lab site when it is cleaned up. It is possible the lagoon site could be delisted by rescoring it with the WDOE model, then petitioning the State.

The SHA report and scoring/ranking process have also caused us to revisit the ground water quality issue. We reviewed the data from the 1988 audit (which







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included the work done in the 1970s and 1980s by WDOE, WSU and others), the post-audit data and all more recent data we had. After this further review we conclude again there are no indications of contaminants at levels of concern, despite some expressions of concern by WDOE and others and some false positives that were later retested and not confirmed.

Please do not hesitate to call me if there are any questions.

Sincerely,

A handwritten signature in cursive script, reading 'Patrick H. Wicks', is written over the typed name.

Patrick H. Wicks, PE, CHMM  
President

Enclosures



DRAFT  
SITE HAZARD ASSESSMENT  
(SHA) REPORT

SILICON METALTECH, INCORPORATED (LAB AND LAGOON SITES)  
Rock Island, Washington  
Douglas County

Prepared for:

Washington Department of Ecology  
801 Summitview Avenue, Suite 1  
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Prepared by:

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May 1991



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## ATTACHMENTS

- I. SHA/DCSS - Lab Site
- II. SHA/DCSS - Lagoon Site
- III. Photograph Log
- IV. Field Notes
- V. Nearby Well Logs
- VI. Recent Analytic Results





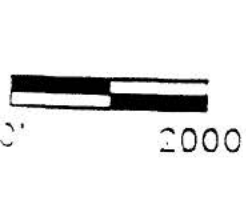
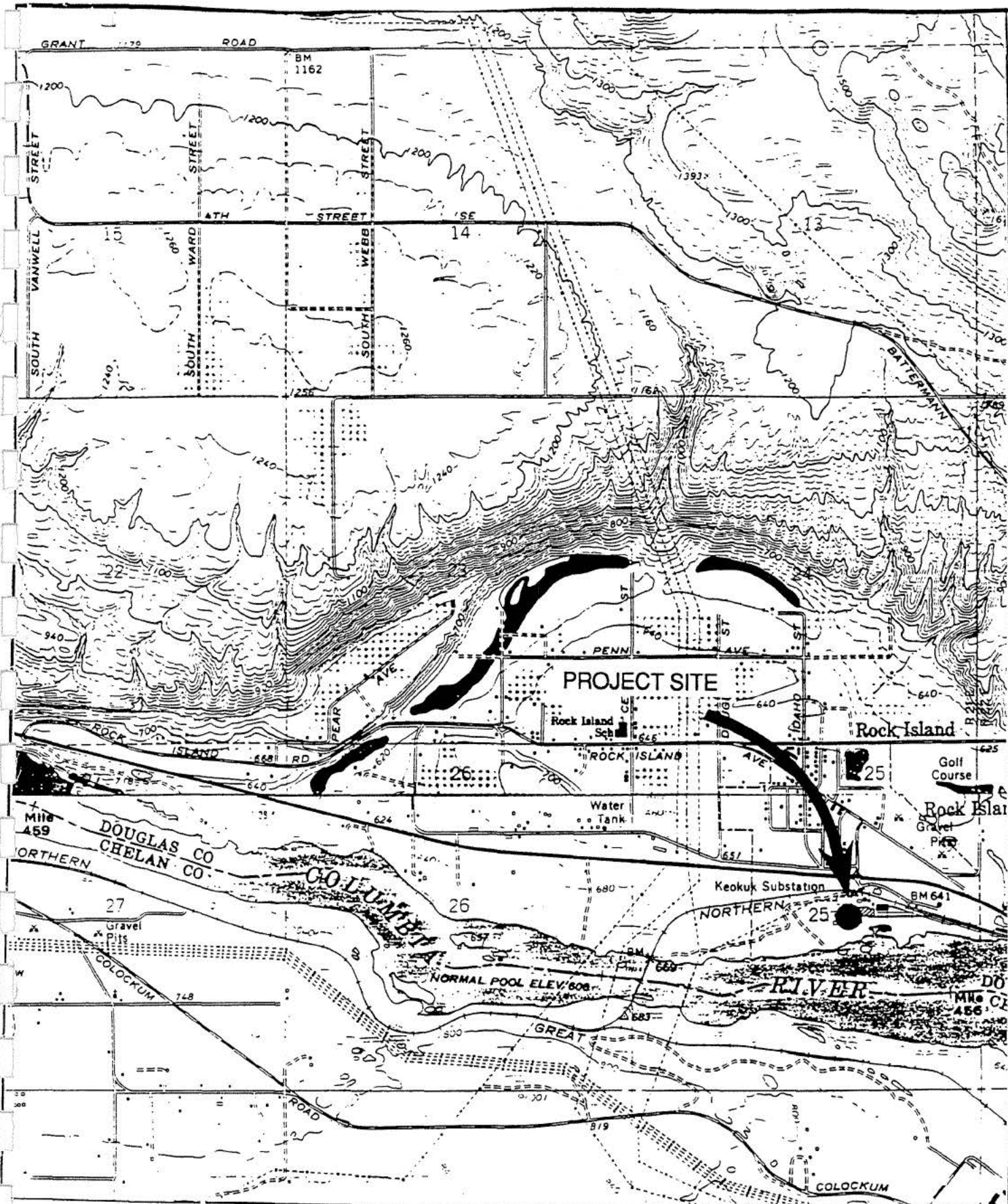


EXHIBIT 2.1  
TOPOGRAPHIC MAP

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SILICON METALTECH  
ROCK ISLAND, WA



PROJECT NO. 0751 007

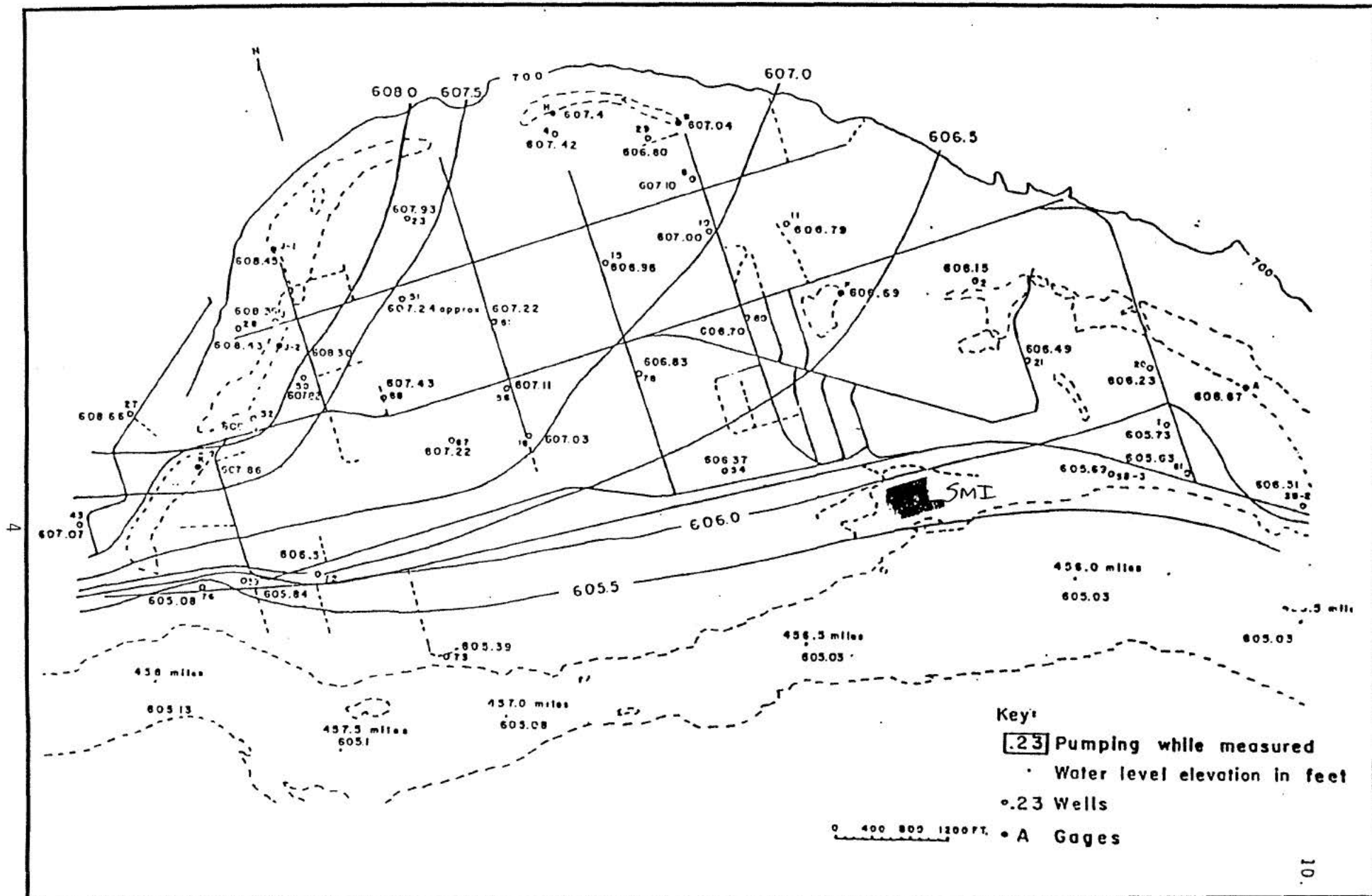


EXHIBIT 2.2.1  
GROUNDWATER CONTOUR MAP 11/12-13/73  
SILICON METALTECH, INC.  
ROCK ISLAND, WA

## 1.0 INTRODUCTION

SAIC Incorporated and its subcontractor, DPRA Incorporated, conducted a Site Hazard Assessment (SHA) at the Silicon Metaltech, Incorporated located in Rock Island, Washington. This SHA addresses two sites at the facility - the Lab Site and Lagoon Site. The purpose of a SHA (in accordance with WAC 173-340-320) is to provide sufficient sampling data and other environmental information to:

- (a) Confirm or rule out that a release or threatened release of a hazardous substance has occurred;
- (b) Identify the hazardous substance and provide some information regarding the extent and concentration of the substance;
- (c) Identify site characteristics that could result in the substance entering and moving through the environment; and
- (d) Evaluate the potential for the threat to human health and the environment.

This information is then used to compute a score using the Washington Ranking Method (WARM) and the priority level of the site relative to the other State Superfund sites.

This report includes a brief description of the site's environmental setting in Section 2.0, a discussion of waste management practices and previous investigations conducted at the site in Section 3.0, a summary of field activities completed under this work assignment in Section 4.0, a set of recommendations in Section 5.0, and a list of references in Section 6.0.

Attachments include the following materials: (1) Data Collection Summary Sheets (DCSS), (2) Photograph Log, (3) Field Notes, (4) Well Logs, and (5) Recent Analytic Data.

## 2.0 ENVIRONMENTAL SETTING

Silicon Metaltech Inc. (SMI) is an active silicon smelting plant located in Rock Island, Douglas County, Washington (Exhibit 2.1). The facility is located just north of the Columbia River, approximately 35 feet above the normal pool elevation. The site is located next to residential and commercial buildings to the north, gravel pits to the northeast, and commercial, residential, and a golf course to the east.

Groundwater was encountered at a depth of 25 feet during excavation activities recently conducted at the facility to investigate mercury contamination. Groundwater elevations and directions of groundwater flow fluctuate seasonally in response to pumping stresses north and west of the facility. Groundwater levels are probably also affected by changes in river stage (Exhibits 2.2.1 and 2.2.2). The river flats are underlain by a thick (approximately 100 feet) sequence of alluvial deposits. These deposits are composed of sands, gravels, cobbles, and boulders with correspondingly high permeability values (Exhibit 2.3).



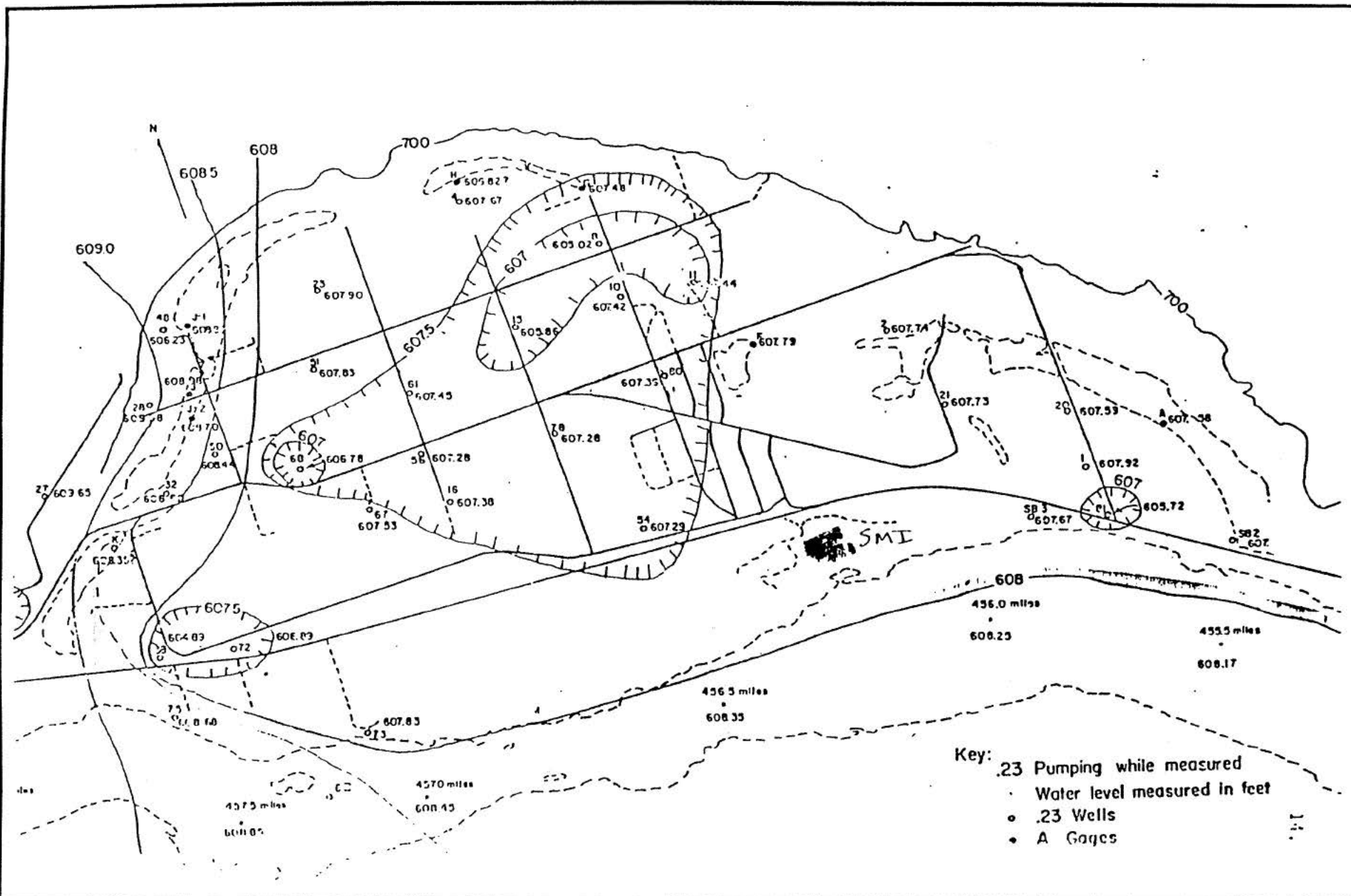
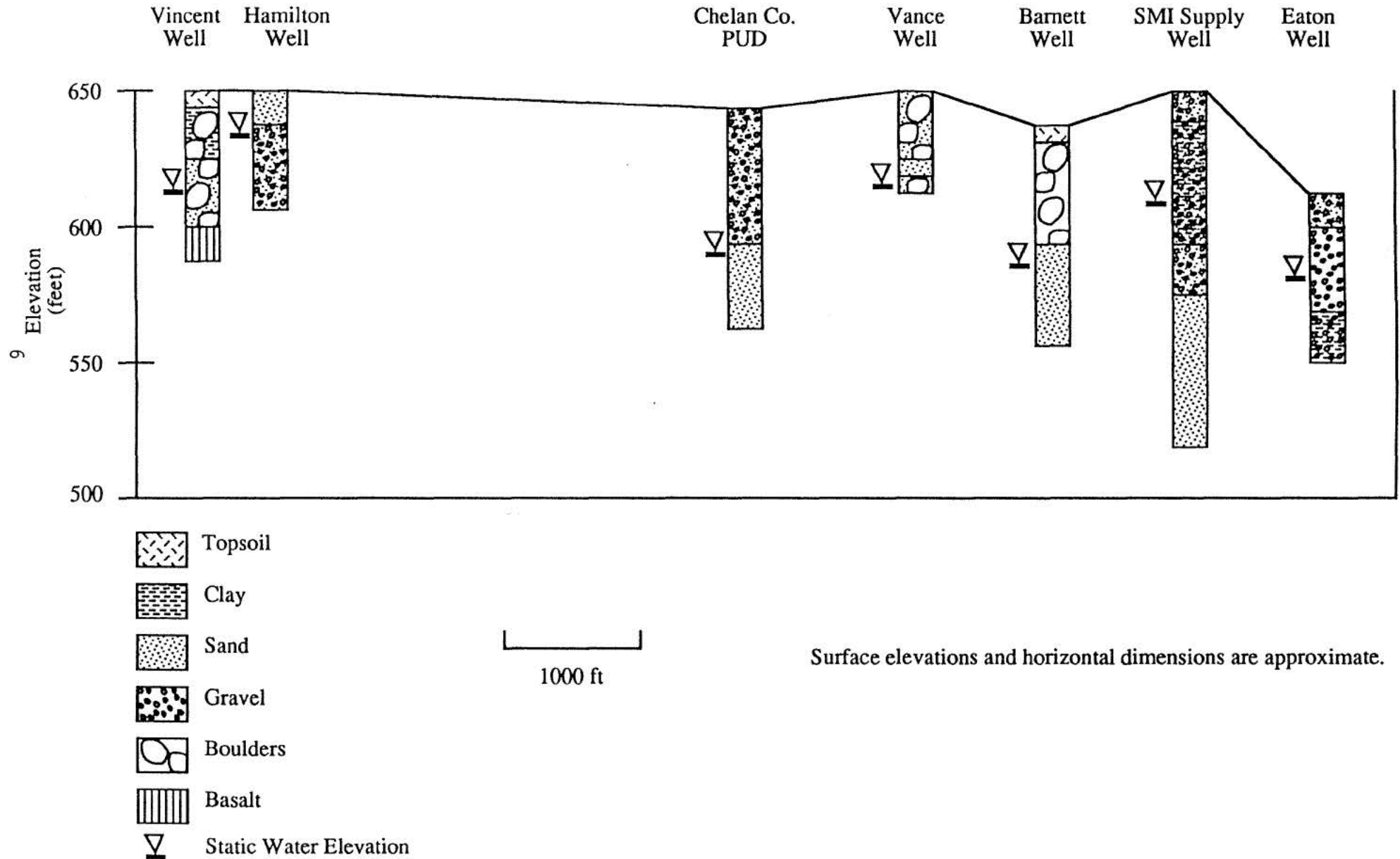


EXHIBIT 2.2.2  
GROUNDWATER CONTOUR MAP 5/30-31/74  
SILICON METALTECH, INC.  
ROCK ISLAND, WA

Exhibit 2.3

# GENERALIZED GEOLOGIC CROSS SECTION OF ROCK ISLAND AREA



### 3.0 WASTE MANAGEMENT PRACTICES AND PREVIOUS INVESTIGATIONS

The SMI Rock Island facility is a silicon smelting plant, which includes a raw materials building, furnace building, a metals laboratory, shop area (vehicles, maintenance, and paint), glycol building, lubricants storage building, bag houses, open and covered bins, a fume bagging and storage facility, eight fume waste lagoons, a solid waste disposal area, and a storage tank which contains PCB oils pumped from transformers (Exhibits 3.1.1 and 3.1.2). There are approximately seven active and three inactive transformers located at the facility. There was also an underground storage tank (UST) located at the facility but it was taken out of service on November 27, 1989. SMI razed a former Quality Control Laboratory to construct a new laboratory in November 1988. It was discovered at that time that mercury had been used in the previous building during the 1960s. The material which made up the building was crushed and taken to the on-site solid waste landfill where it was buried. There was also asbestos in the building and, according to Robert Miller of the facility, it was taken to an appropriate off-site landfill. According to a maintenance man at the facility, the oil from the previously mentioned transformers has been checked and it contains less than 50 parts per million (ppm) PCBs. Data relating to the disposal of the asbestos or oil tests for the transformers were not provided during the inspection.

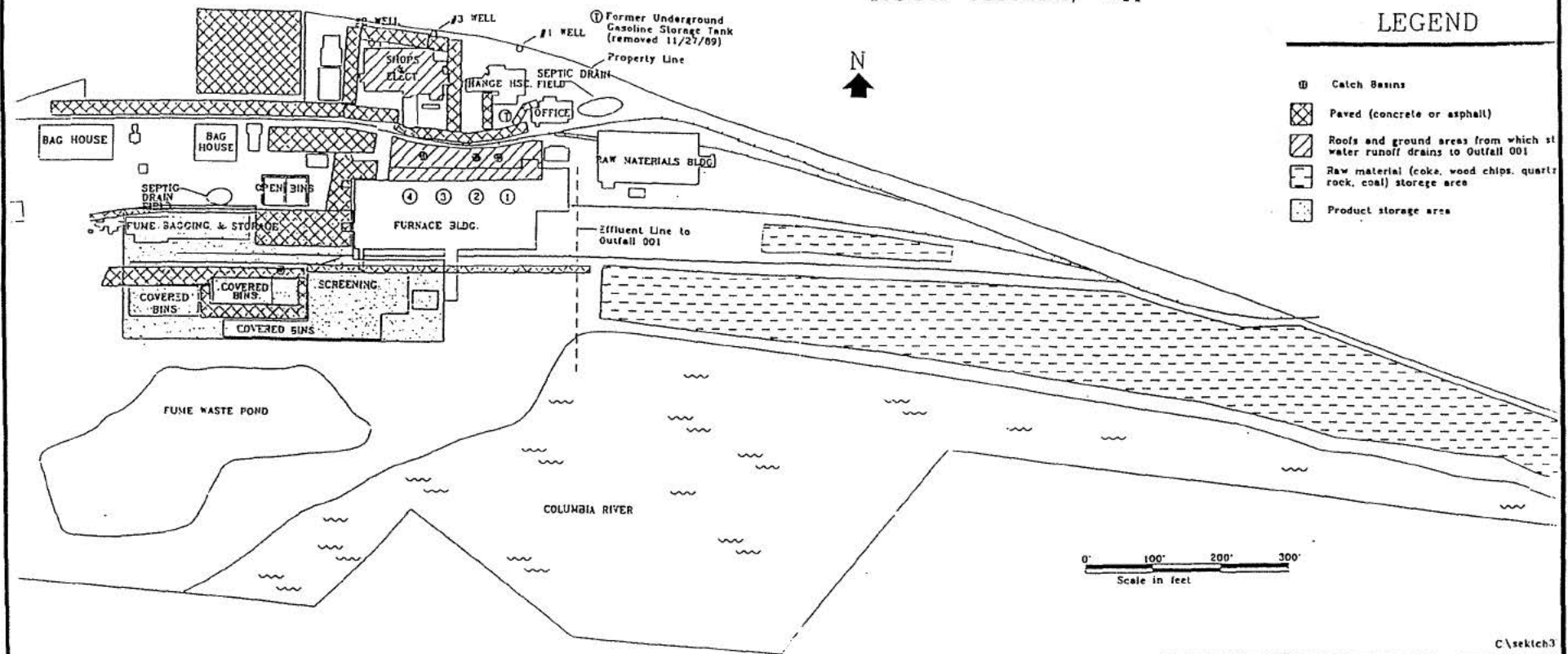
Excavation of subsurface materials from the area near the former mercury retort and dry well were conducted in late 1988. Soil samples collected at this time showed concentrations ranging from 47 to 2,370 ppm mercury. EP toxicity concentrations were less than 1 ppm.

There are currently eight fume waste lagoons at the facility. Three are active and five are inactive. One of the inactive lagoons is lined with plastic. The inactive fume waste lagoons are filled with solids. The facility generates approximately 40 tons of fume dust every 16 hours. The fume dust which is not collected in the bag houses is piped to the first of the three active fume waste lagoons. The water is then piped to the next lagoon while a portion of the solids settle out in the first lagoon. The water and remaining solids enter the second lagoon. If the water level reaches within two feet of the top of the dikes, it is piped to a

# Site Plan Silicon Metaltech, Inc. Rock Island, WA

## LEGEND

- ① Catch Basins
- ▨ Paved (concrete or asphalt)
- ▧ Roofs and ground areas from which storm water runoff drains to Outfall 001
- ▩ Raw material (coke, wood chips, quartz rock, coal) storage area
- ▤ Product storage area



SOURCE: D.W. GAHRINGER & ASSOC., 1997

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ENVIRONMENTAL ENGINEERING & CONSULTING, INC.	Proj. No 39187
19125 NORTHCREEK PARKWAY, SUITE 120	LOCATIONS ARE AT
BOTHELL, WA 98011 (206) 485-3437	9/11/90 Drn.

EXHIBIT 3.1.1  
SITE MAP OF PREVIOUS INVESTIGATION  
SILICON METALTECH, INC.  
ROCK ISLAND, WA

Site Plan  
Silicon Metaltech, Inc.  
Rock Island, WA



LEGEND

+ SMTFU-2

FUME WASTE  
SAMPLE POINTS

FUME WASTE PONDS

SOLID WASTE DISPOSAL AREA

FUME WASTE PONDS

• BACKGROUND  
SAMPLE  
LOCATION

FUME WASTE POND

FUME WASTE DISPOSAL AREA

+ SMTFU-3

+ SMTFU-4

SMTFU-2

+ SMTFU-5

+ SMTFU-6

FUME WASTE  
DISPOSAL AREA

+ SMTFU-7

+ SMTFU-8

+ SMTFU-12

+ SMTFU-11

0' 100' 200' 300'  
Scale in feet

EXHIBIT 3.1.2  
SITE MAP OF PREVIOUS INVESTIGATION  
SILICON METALTECH, INC.  
ROCK ISLAND, WA



third lagoon where the remaining water is allowed to evaporate while the remaining solids settle to the bottom of the lagoons. Fume waste samples have been collected for EP TOX metals in October 1988 and for TCLP metals and semi-volatiles in March 1991 (Attachment VI). None of the EP TOX or TCLP data of the fume waste has ever exceeded maximum allowable concentrations. This data was generated from both solids as well as water samples. There have been few groundwater quality data collected in the vicinity of the lagoons and no detailed examination of the interaction between the lagoons and the Columbia River has been documented.

Apparently, some air quality data have been collected. Mr. Miller did indicate that the amount of airborne contamination has decreased to almost zero since the bag houses were constructed in 1977 or 1978. This control does not account for any dust that becomes airborne after drying out in one of the inactive lagoons.

Concentrations in SMI's supply well and nearby residences were found to be in the low parts per billion range. Earlier sampling by Washington State University and WDOE in 1979-1980 of wells in the vicinity of Rock Island indicated relatively high levels of arsenic and selenium. Two monitoring wells were installed at SMI's predecessor (Hanna Mining) near Lagoon #4. Low parts per billion concentrations were observed for metals over a six-month time period. The wells were then abandoned. It is unclear if the low metal concentrations in the Rock Island Area result from: (1) leakage of the fume lagoons which do show high metals levels, (2) other contamination sources such as orchards, or (3) from natural background.

#### 4.0 FIELD ACTIVITIES

The field activities related to the Silicon Metaltech, Inc. facility included the following: interview of a site representative to determine the processes related to the fume waste lagoons and an inspection of the area where mercury-contaminated soil and other materials had been removed. The purpose of these inspections and interview was to identify any data gaps that may exist.

Based on the interview with the facility representative, the bulk of the mercury-contaminated soil and other material has been removed, placed in plastic-lined crates, and is stored near the fume waste lagoon directly west of the main portion of the building. Some mercury-contaminated soil still resides in the subsurface at the facility and represents a potential for groundwater contamination. There is still a potential for an air release as long as the plastic-lined crates of soil are present at the facility. These crates should be covered until such time as these crates are removed.

## 5.0 RECOMMENDATIONS

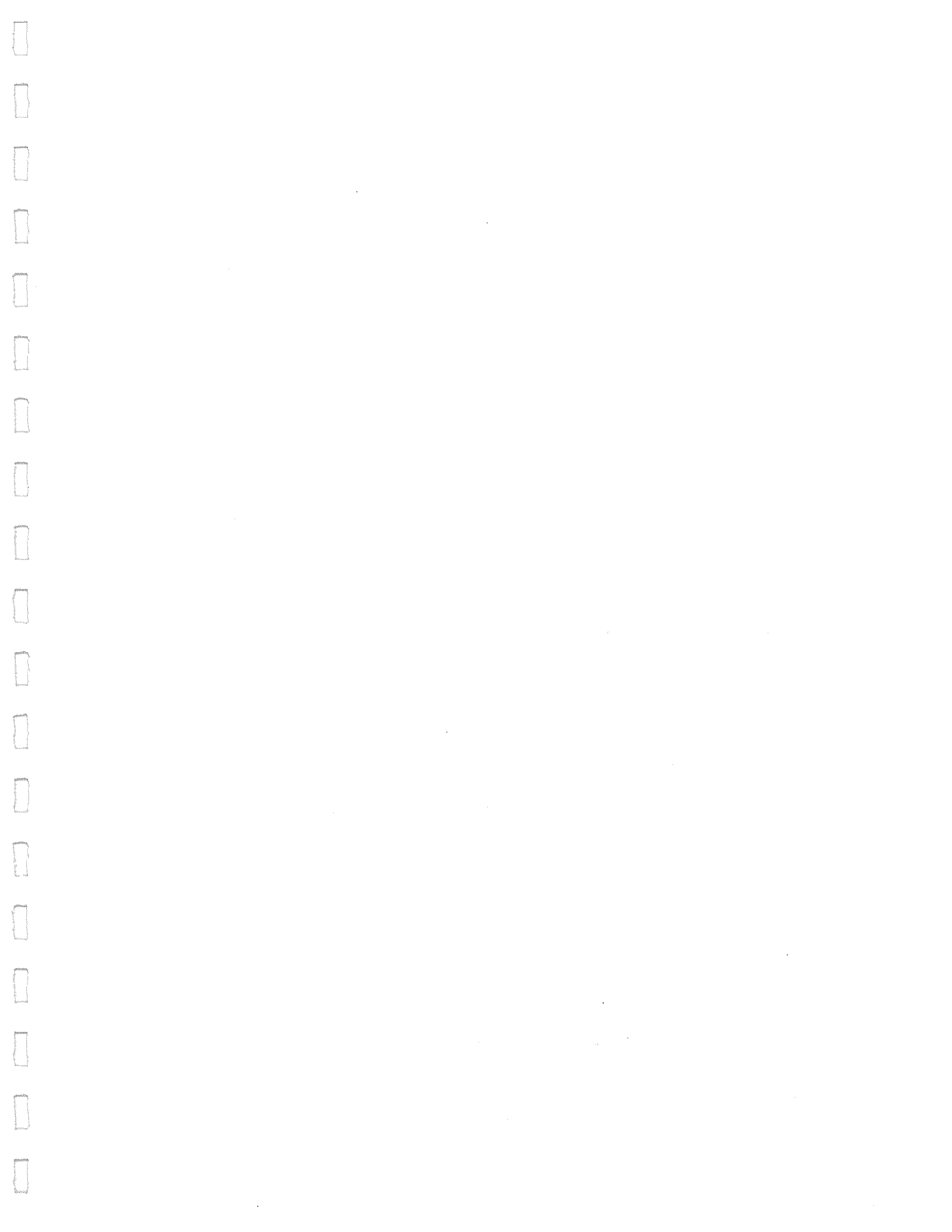
Whereas sufficient data do exist to score the SMI Lab and Lagoon Sites, additional information would be helpful in developing a more precise WARM Score. Certain interim measures should also be implemented at the facility.

The air route is a potential pathway for heavy metals from both the stockpiled mercury-contaminated soil excavated from the Lab Site and the Fume Lagoon waste piles. These materials should be covered or disposed to prevent transport by wind dispersal. Limited soil sampling downwind of both waste management areas may be warranted.

Monitoring wells previously installed at the facility near Lagoon #4 apparently showed low metals levels. Well installation and sampling protocols are not known, however. Installation of three monitoring wells (one upgradient, two downgradient) from the most frequently used and largest lagoons may be justified to confirm releases of heavy metals to groundwater.

## 6.0 REFERENCES

1. Notification of Hazardous Waste Activities, from Hanna Mining Co. to EPA Region X, August 14, 1980.
2. Telephone Report, Pat Wicks of ERM-Northwest to Harold Porath of WDOE, November 30, 1988.
3. Characterization of Mercury Contamination in Soil and Fill at Silicon Metaltech Inc., from Pat Wicks of ERM-Northwest to Dennis Bowhay of WDOE, March 9, 1989.
4. Memo to Files, from John Fahsholtz of WDOE, July 27, 1990.
5. Memo to Files, from Tony Valero of WDOE, September 12, 1990.
6. Letter in reference to Stockpiled Contaminated Soil, C.C. Bromley of Cyprus Minerals Company to John Fahsholtz of WDOE, November 20, 1990.
7. Water Quality Memo, from Bob Raforth of WDOE to John Fahsholtz (of same), December 31, 1990.
8. SHA Activity Letter, from John Fahsholtz of WDOE to James Trunzo, February 13, 1991.
9. Soil Conservation Service, Douglas County.
10. State of Washington Water Rights Information System Database.
11. State of Washington Public Water Supply Database.





ATTACHMENT I

SHA DCSS

SILICON METALTECH, INC. - LAB SITE



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY  
TOXICS CLEANUP PROGRAM

SITE HAZARD ASSESSMENT DATA COLLECTION SUMMARY SHEETS  
FOR  
WASHINGTON RANKING METHOD

Site  
Name: Silicon Metaltech Inc. - Lab Site

Location: Rock Island, Washington

Site owner/operator: Silicon Metaltech Inc.

Address: 100 4th St., Rock Island, WA / P.O. Box 361, Wenatchee, WA 98807-0361

Any other known PLP(s): Cypress - Foote & M.A. Hanna

Address: Unknown

Site Number: \_\_\_\_\_

Date(s) of field site hazard assessment: 4/15/91

Samples or field measurements: \_\_\_\_\_ soil  
\_\_\_\_\_ surface water  
\_\_\_\_\_ air \_\_\_\_\_ ground water

(Attach copies of pertinent sampling and analytical data, as well as all other supporting documentation.)

Photographs: Yes

Weather: Cloudy to partly cloudy, intermittent showers, 60°F

Lead inspector: Rick Horner

Other inspectors: Greg Uetrecht

Signature: *Greg Uetrecht*

## PART I: Hazardous Substances

NOTE: Page numbers (e.g. SW-2) shown in parentheses throughout this checklist refer to the WARM Scoring Manual. WK- numbers refer to pages of the new scoring sheets (not those in the scoring manual).

### A. LIST

List hazardous substances, known or suspected (check k or s), currently at the property, or that have been previously (check c or p) at the property (WK-2,3):

<u>Hazardous Substance</u> (K) S C (P)	<u>Quantity</u>	<u>Units</u>
1. <u>Mercury - soil (groundwater)</u>	<u>4000 (.0009)</u>	<u>ppm (mg/l)</u>
2. <u>Chromium - soil</u>	<u>93</u>	<u>ppm</u>
3. <u>Lead - soil (groundwater)</u>	<u>150 (.004)</u>	<u>ppm (mg/l)</u>
4. <u>Nickel - soil</u>	<u>23</u>	<u>ppm</u>
5. <u>Arsenic groundwater</u>	<u>.004</u>	<u>mg/l</u>
6. <u>Cadmium - groundwater</u>	<u>.0005</u>	<u>mg/l</u>
7. <u>Di-n-Butyl phthalate - soil</u>	<u>.019</u>	<u>ppm</u>
8. <u>Chrysotile tiles in solid waste pile</u>	<u>64</u>	<u>ft<sup>3</sup></u>
9. _____	_____	_____

Additional? \_\_\_\_\_ (list on attachment)

By which routes are these available?

<u>Number (from above)</u>	<u>Surface Water</u>	<u>Air</u>	<u>Groundwater</u>
1. <u>1,3,5,6</u>	_____	_____	<u>X</u>
2. <u>1-8</u>	_____	<u>X</u>	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____

(stockpiled materials  
in plastic-lined  
open wooden crates)

### B. SOURCES

Check those known or observed (WK-3):

- ☒ drums or other containers
- ☒ electrical transformers
- ☒ above ground tanks
- ☐ below ground tanks - removed in 11/27/89
- ☒ ponds, pits, or other impoundments
- ☐ pipelines (other than water, sewer, or gas)
- ☒ floor drains
- ☒ exterior drains for rainwater, surface waters, spills, etc.
- ☐ other? Identify: \_\_\_\_\_

### C. INDICATORS

Check those known or observed:

- ☒ discolored soils
- ☒ disturbed soils
- ☐ discolored standing water
- ☐ unusual or noxious odors
- ☐ sick or dead vegetation
- ☐ groundwater monitoring wells
- ☐ other? Identify: \_\_\_\_\_

If any are checked in B or C, explain details including exact locations (identify location on a map or drawing).

#### Additional

- information: Drums located in paint shop & lubrication building - automotive repair shop - electrical transformers - next to Raw Materials Building - between shop & furnace building - scrapped near solid waste landfill.
- Fume dust settling basins - west and north of facility - (three active - five filled with fume dust).
  - Floor or exterior drains noted throughout facility
  - Discolored soils in crates as well as near the solid waste landfill and throughout the facility.
  - Soil removed due to mercury contamination

**PART II: Releases**

**A. KNOWN OR SUSPECTED RELEASES**

List those hazardous substances identified (by number) in I.A. which are known, or suspected, to have been released (WK-2,3):

<u>Substance (#)</u>	<u>Quant.Released</u>	<u>Units</u>	<u>Medium released to</u>
1-7	See Part I-A		groundwater

Additional information/reference? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**B. SOURCES AND IMPACTS (Pages SW-5,6; A-9,10; GW-6,7)**

List those hazardous substances identified (by number) in II.A. and identify the source and impact:

<u>Substance No.</u>	<u>Source</u>	<u>Impacts/affects To</u>	<u>Area</u>
1-7	dry well	soil/groundwater	350 ft <sup>2</sup> (excavated)
1-7	stockpiled materials	air	60 64-cubic foot boxes

Additional information/reference? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### III. Migration Potential

#### A. CONTAINMENT--LANDFILLS (SW-7; A-12; GW-8,9)

Present?   X   How many? One (solid waste)

Check those that apply:

1.        An engineered, maintained run-on/run-off control system
2.        An engineered/maintained cover without ponding
3.        Unmaintained run-on/runoff control system or cover
4.   X   No run-on/runoff control or no cover
5.        Uncontaminated soil cover greater than 6" thick
6.        Uncontaminated soil cover less than 6" thick
7.        Contaminated soil used as cover
8.        A functioning vapor collection system
9.        Mixing or agitation used
10.   X   No liner
11.        Single clay or compacted soil liner  
(permeability        cm/sec)
12.        Single synthetic liner (permeability        cm/sec)
13.        Double liner system (permeability        cm/sec)
14.        Leachate collection system, maintained and functioning
15.        Leachate collection system, unknown condition or not functioning
16.   X   Liquid wastes may have been disposed of
17.        Liquid wastes were disposed of in landfill
18.        Reliable evidence no liquid wastes were disposed

Additional  
comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B. CONTAINMENT--SURFACE IMPOUNDMENTS

(SW-7,8; A-13;  
GW-10,11)

Present Yes How many? 7 (settling basins for fume dust)

Check those that apply: (See Lagoon Site)

1. ☐ The dike is apparently sound
2. ☐ The dike is regularly inspected and maintained
3. ☐ There is evidence of failure, erosion, slumping, or release of contents
4. ☐ Two feet of freeboard maintained automatically
5. ☐ The freeboard is manually controlled so that there is at least 2 feet of freeboard
6. ☐ Evidence of insufficient freeboard (<2 ft.)
7. ☐ A maintained cover
8. ☐ Unmaintained cover, no cover
9. ☐ No liner
10. ☐ Single synthetic liner
11. ☐ Single clay or compacted soil liner
12. ☐ Double liner
13. ☐ Working leak detection system
14. ☐ Evidence of loss of fluid (other than by evaporation)

Additional  
comments:

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C. CONTAINMENT--DRUMS AND SMALL CONTAINERS

(SW-9; A-11;  
GW-11)

Present Yes How many? Approximately 60 64-cubic foot boxes

Check those that apply:

1. ☒ No functional containment
2. ☐ There is secondary containment capacity for the total volume of containers
3. ☐ There is secondary containment with capacity for at least 110% of volume of the largest container
4. ☐ The secondary containment is less than 110% of the volume of the largest container
5. ☐ The containers are stored in single, or double layers on pallets, or in racks
6. ☐ The containers are stored in an unstable manner
7. ☐ Some containers are open or have visible liquid
8. ☐ Some containers are leaking
9. ☐ Containers are protected from weather
10. ☐ Containers showing deterioration
11. ☐ Containment surface is impervious
12. ☐ Containment surface has cracks or semi-permeable
13. ☒ No base material/permeable base such as gravel/base materials unknown
13. ☐ Containment is regularly inspected and maintained
14. ☐ Evidence of containment failure

Additional

comments: Outdoor plastic-lined wooden boxes contain mercury-  
contaminated soil from Lab Site.

Present? Yes How many? 2

1. \_\_\_\_\_ Secondary containment with a capacity of 110% of the volume of the tanks
2. \_\_\_\_\_ Secondary containment at least 50% of the volume of all tanks
3. \_\_\_\_\_ Containment system with capacity for at least 10% of volume of containers or tanks
4.   X   No containment, or less than 10% capacity

7. X Tanks are covered

10.          Containers sealed, not protected

12 Containers leaking

14. Record the #s of above which apply only to below ground tanks

15. Record the #s of above which apply to both above and below ground tanks:

comments One appears to be an old underground tank which now contains PCB's

- the other tank was used for molasses
- one tank removed in 1989 which was underground
- one contained gasoline - no closure report.

E. CONTAINMENT--WASTE PILES (SW-10; A-13; GW-12,13)

Present? Yes How many? 2 (See Lagoon Site)

Check those that apply:

1. ☐ Waste pile is outside, no protecting structure
2. ☐ Waste pile is outside, in open structure with roof
3. ☐ Waste pile is outside, with partial or unmaintained cover
4. ☐ Waste pile is outdoors, with maintained cover
5. ☐ No cover is present
6. ☐ Waste pile is fully enclosed, intact building
7. ☐ There is an engineered run-on/run-off control
8. ☐ The run-on/run-off is maintained
9. ☐ Run-on/runoff control present, unknown condition
10. ☐ No run-on/runoff control system present, or unknown if present
11. ☐ Liner or base present; ☐ Not present.
12. ☐ Single clay or compacted soil liner
13. ☐ Single synthetic liner
14. ☐ Double liner
15. ☐ Maintained, functioning leachate collection system
16. ☐ Leachate collection system; ☐ Unknown condition; or ☐ Not functioning.

Additional  
comments

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F. CONTAINMENT--SPILLS, DISCHARGES, AND CONTAMINATED SOIL  
(SW-10,11; A-13,14; GW-13)

Check those that apply:

1. ☒ Spill, discharge, or contaminated soil only in the subsurface at the site--including dry wells, drain fields, leaking underground storage tanks
2. ☐ Soil contamination that has been covered partially excavated and filled with at least 6 inches of clean soil
3. ☐ Soil contamination that has been covered or partially excavated and filled with less than 6 inches of clean soil
4. ☒ Uncontaminated soil cover >2 feet thick
5. ☐ No cover; or ☐ Cover <2 feet, but > 6" thick
6. ☐ Spill, discharge, or contaminated soil present at the surface in an area with maintained run-on/run-off control
7. ☐ Spill, discharge, or contaminated soil present at the surface in an area with unmaintained run-on/run-off controls?
8. ☐ Spill, discharge, or contaminated soil present at the surface with no run-on/run-off control or unknown controls?
9. ☒ Contaminated soil has been disturbed or excavated and stored above grade
10. ☐ A functioning vapor recovery system
11. ☒ No vapor recovery system

Additional

comments Contamination still present in drain hold area for former dry well.

G. CONTAINMENT--SITE CHARACTERISTICS  
(SW-11,12; A-6; GW-14; WK-5,6,8)

1. How would you evaluate the site soils? Circle predominant textural class.

X Sand, gravel sandy gravel, well-graded sand, well-graded gravel, gravelly sand, gravelly sand loam, silty sandy loam?

\_\_\_\_\_ Poorly-graded sands with fines, silt-sand mixtures, loam, silt loam, sandy silt loam, clayey sand, clay sand loam?

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Clayey sands, sand-clay mixtures, clayey gravels, clay-sand-gravel mixtures, inorganic silts, clayey silt loam, silty clay loam, porous rock outcrop, sandy silty clay, sandy clay loam?

\_\_\_\_ Clay (organic and inorganic), clay loam, rock outcrop, peat, peaty clay?

Is the above based on personal observation, lab analysis, or professional judgement by a soil expert? (circle)

2. Total annual precipitation = 8.8 in./yr (SW-12; WK-5)

3. Max. 2-yr/24-hr precip.= 1.0 inches (SW-14; WK-5)

4. Net precipitation (see 2.2, GW-13) = 3.0 in. (WK-9)

5. Is the site not in a flood plain? \_\_\_\_\_ (SW-14; WK-5)  
Is the site in a 500 year flood plain? X CP No. 5300360565A  
Is the site in a 100 year flood plain? \_\_\_\_\_

6. What is the terrain slope to the nearest surface water?  
2.8 % (SW-14,15; WK-6)

7. What is the subsurface hydraulic conductivity?  
 $10^{-1}$  cm/sec (GW-14; WK-9)

8. What is the vertical depth from the deepest point of known contamination to ground water? 0-25 feet (GW-15; WK-9)

Additional  
comments:

#### IV. Targets

##### A. DISTANCE TO SURFACE WATER (SW-16; WK-6)

1. What surface water(s) (lake, stream, river, pond, bay, etc.) is/are within 10,000 feet (downgradient) of the site?

<u>Name</u>	<u>Dist.-ft.</u>	<u>Obs.</u>	<u>Meas.</u>
Columbia River	500		X (topo map)

None? \_\_\_\_\_ .Comments \_\_\_\_\_

2. What drinking water intakes are within 2 miles of the site? (all lake intakes, river intakes downstream only) (SW-12; WK-6)

None? X

<u>Source</u>	<u>Location</u>	<u>Pop. Served</u>

3. How much acreage (anywhere) is irrigated by surface water intakes (downstream only) or wells(anywhere) within 2 miles of the site? (SW-16; GW-18; WK-6,9)

None? \_\_\_\_\_

SURFACE WATER: Acres 141 (1600 acres max.)

Source(s) Columbia River, Unnamed slough;

GROUNDWATER: Acres 456 (4500 acres max.)

Source(s) wells

4. What is the distance to the nearest fishery resource (total of overland distance plus downgradient distance)? (SW-17; WK-6)

Over 10,000 feet? \_\_\_\_\_ Distance if less than 10,000 feet? 500 ft. Columbia River

5. What are the names of, and the distances to, the nearest sensitive environments (total of overland distances plus downgradient distances)? (SW-18; A-15; WK-6)

Over 10,000 feet? \_\_\_\_\_ Names and distances if less than 10,000 feet: Columbia River (500 ft.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Is the aquifer a federally-designated sole source aquifer? \_\_\_\_\_ (GW-16; WK-9)

7. Is the ground water used for: (GW-16; WK-9)

☒ private supply  
☒ public supply  
☒ irrigation of human food crops or livestock  
☒ non-food (human) vegetation  
\_\_\_\_\_ not used due to natural contaminants  
\_\_\_\_\_ ground water not used, but usable

8. Distance to nearest drinking water well? < 600 feet (GW-17; WK-9)

9. Is there an alternate source available to groundwater for private or public water supply? (WK-9) No

Best Professional Judgement

10. Population served by drinking water wells within 2 miles? 144 (GW-17; WK-9)

Public Water Supply = 30 Private:  $38 \times 3 = 114$

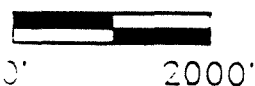
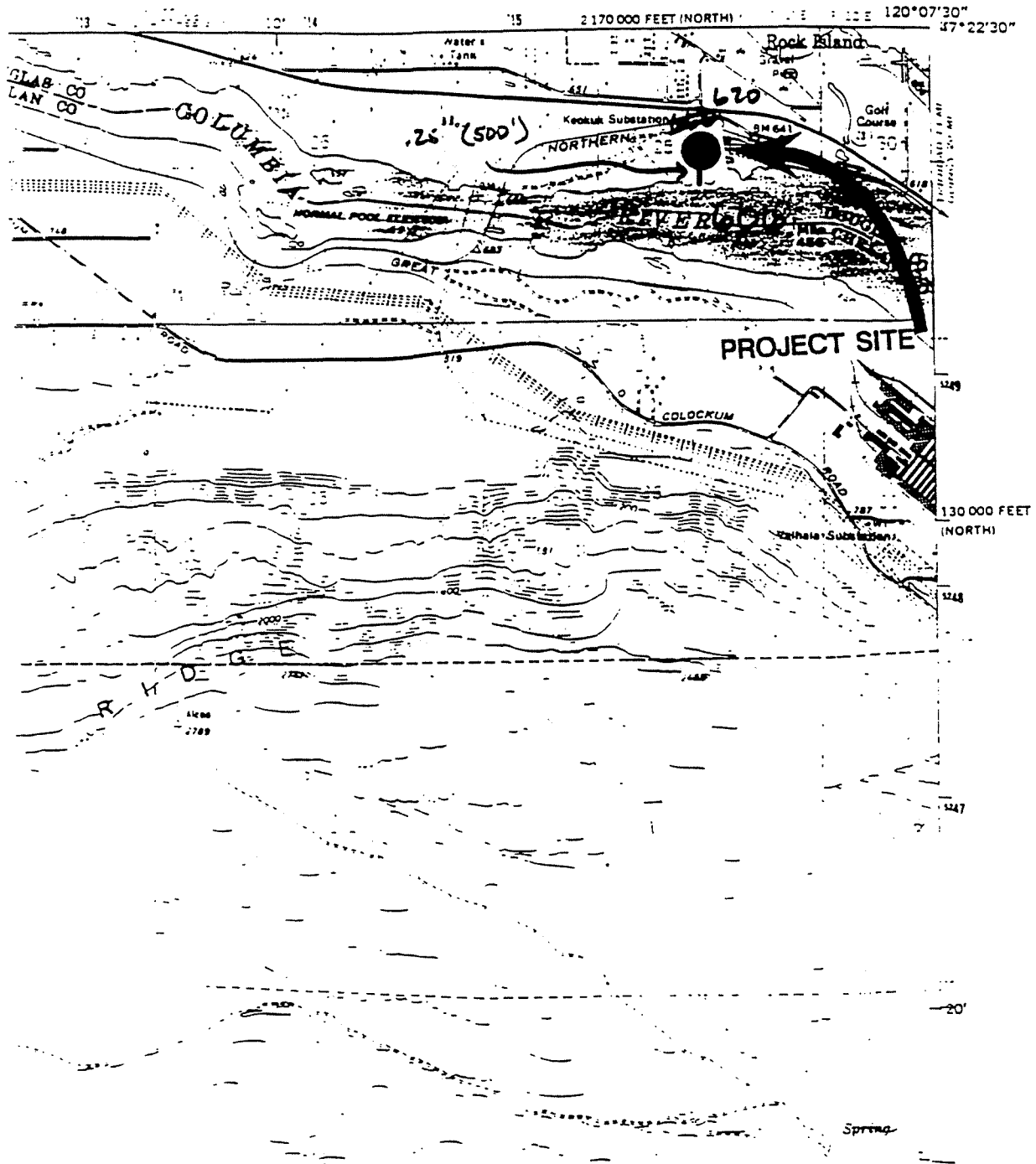
11. Distance to the nearest population? < 1000 feet (A-15, 16; WK-8)

12. Population within one-half mile radius? 220 (A-16; WK-8)

Additional comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

MALAGA QUADRANGLE  
WASHINGTON  
7.5 MINUTE SERIES (TOPOGRAPHIC)

1978 AC  
MALAGA NE1



Gradient  

$$\frac{620 - 606}{500} = 0.028$$

SITE LOCATION MAP

FIGURE 1.1

SILICON METALTECH  
ROCK ISLAND, WA



PROJECT NO. JTS1 007



ATTACHMENT II

SHA DCSS

SILICON METALTECH, INC. - LAGOON SITE



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY  
TOXICS CLEANUP PROGRAM

SITE HAZARD ASSESSMENT DATA COLLECTION SUMMARY SHEETS  
FOR  
WASHINGTON RANKING METHOD

Site

Name: Silicon Metaltech Inc. - Lagoon Site

Location: Rock Island, Washington

Site owner/operator: Silicon Metaltech Inc.

Address: 100 4th St., Rock Island, WA / P.O. Box 361, Wanatchee, WA 98807-0361

Any other known PLP(s): Cypress - Foote & M.A. Hanna

Address: Unknown

Site Number: \_\_\_\_\_

Date(s) of field site hazard assessment: 4-15-91

Samples or field measurements: \_\_\_\_\_ soil

\_\_\_\_\_ surface water

\_\_\_\_\_ air

\_\_\_\_\_ ground water

(Attach copies of pertinent sampling and analytical data, as well as all other supporting documentation.)

Photographs: Yes

Weather: Cloudy to partly cloudy, intermittent showers, 60° F

Lead inspector: Rick Horner

Other inspectors: Greg Uetrecht

Signature: *Greg Uetrecht*

# PART I: Hazardous Substances

NOTE: Page numbers (e.g. SW-2) shown in parentheses throughout this checklist refer to the WARM Scoring Manual. WK- numbers refer to pages of the new scoring sheets (not those in the scoring manual).

## A. LIST

List hazardous substances, known or ssuspected (check k or s), currently at the property, or that have been previously (check c or p) at the property (WK-2,3):

<u>Hazardous Substance</u> (K) S C (P) *	<u>Quantity</u>	<u>Units</u>
1. <u>Arsenic</u>	<u>1</u>	<u>ug/l</u>
2. <u>Selenium</u>	<u>2</u>	<u>ug/l</u>
3. <u>Barium</u>	<u>82</u>	<u>ug/l</u>
4. <u>Cadmium</u>	<u>.5</u>	<u>ug/l</u>
5. <u>Lead</u>	<u>9</u>	<u>ug/l</u>
6. <u>Mercury</u>	<u>.7</u>	<u>ug/l</u>
7. <u>Chromium</u>	<u>10</u>	<u>ug/l</u>
8. <u>Silver</u>	<u>2.8</u>	<u>ug/l</u>
9. <u></u>	<u></u>	<u></u>

Additional? \_\_\_\_\_ (list on attachment)

By which routes are these available?

<u>Number (from above)</u>	<u>Surface Water</u>	<u>Air</u>	<u>Groundwater</u>
1. <u>1-8</u>	<u></u>	<u></u>	<u>X</u>
2. <u>1-8</u>	<u></u>	<u>X</u>	<u></u>
3. <u></u>	<u></u>	<u></u>	<u></u>
4. <u></u>	<u></u>	<u></u>	<u></u>
5. <u></u>	<u></u>	<u></u>	<u></u>
6. <u></u>	<u></u>	<u></u>	<u></u>
7. <u></u>	<u></u>	<u></u>	<u></u>
8. <u></u>	<u></u>	<u></u>	<u></u>
9. <u></u>	<u></u>	<u></u>	<u></u>

(lagoon dredge waste piles)

\* EP TOX (October 1988) and TCLP (March 1991) samples of fume waste are all below hazardous waste thresholds.

### B. SOURCES

Check those known or observed (WK-3):

- ☒ drums or other containers
- ☒ electrical transformers
- ☒ above ground tanks
- ☐ below ground tanks - removed in 11/27/89
- ☒ ponds, pits, or other impoundments
- ☐ pipelines (other than water, sewer, or gas)
- ☒ floor drains
- ☒ exterior drains for rainwater, surface waters, spills, etc.
- ☐ other? Identify: \_\_\_\_\_

### C. INDICATORS

Check those known or observed:

- ☒ discolored soils
- ☒ disturbed soils
- ☐ discolored standing water
- ☐ unusual or noxious odors
- ☐ sick or dead vegetation
- ☐ groundwater monitoring wells
- ☐ other? Identify: \_\_\_\_\_

If any are checked in B or C, explain details including exact locations (identify location on a map or drawing).

#### Additional

information: Drums located in paint shop & lubrication building - automotive

- repair shop - electrical transformers - next to Raw Materials Building -
- between shop & furnace building - scrapped near solid waste landfill.
- Fume dust settling basins - west and north of facility - (three active -
- five filled with fume dust).
- Floor or exterior drains noted throughout facility
- Discolored soils in crates as well as near the solid waste landfill and
- throughout the facility.
- Soil removed due to mercury contamination

**PART II: Releases**

**A. KNOWN OR SUSPECTED RELEASES**

List those hazardous substances identified (by number) in I.A. which are known, or suspected, to have been released (WK-2,3):

<u>Substance (#)</u>	<u>Quant. Released</u>	<u>Units</u>	<u>Medium released to</u>
1-8	See I.A.		groundwater

Additional information/reference? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**B. SOURCES AND IMPACTS (Pages SW-5,6; A-9,10; GW-6,7)**

List those hazardous substances identified (by number) in II.A. and identify the source and impact:

<u>Substance No.</u>	<u>Source</u>	<u>Impacts/affects To</u>	<u>Area</u>
1-8	lagoons (wastepiles)	groundwater	

Additional information/reference? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### III. Migration Potential

#### A. CONTAINMENT--LANDFILLS (SW-7; A-12; GW-8,9)

Present?   X   How many? One (solid waste)

Check those that apply:

1.        An engineered, maintained run-on/run-off control system
2.        An engineered/maintained cover without ponding
3.        Unmaintained run-on/runoff control system or cover
4.   X   No run-on/runoff control or no cover
5.        Uncontaminated soil cover greater than 6" thick
6.        Uncontaminated soil cover less than 6" thick
7.        Contaminated soil used as cover
8.        A functioning vapor collection system
9.        Mixing or agitation used
10.   X   No liner
11.        Single clay or compacted soil liner  
(permeability        cm/sec)
12.        Single synthetic liner (permeability        cm/sec)
13.        Double liner system (permeability        cm/sec)
14.        Leachate collection system, maintained and functioning
15.        Leachate collection system, unknown condition or not functioning
16.   X   Liquid wastes may have been disposed of
17.        Liquid wastes were disposed of in landfill
18.        Reliable evidence no liquid wastes were disposed

Additional  
comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B. CONTAINMENT--SURFACE IMPOUNDMENTS

(SW-7,8; A-13;  
GW-10,11)

Present Yes How many? 8 (settling basins for fume dust)

Check those that apply:

1. ☐ The dike is apparently sound
2. ☐ The dike is regularly inspected and maintained
3. ☒ There is evidence of failure, erosion, slumping, or release of contents
4. ☐ Two feet of freeboard maintained automatically
5. ☐ The freeboard is manually controlled so that there is at least 2 feet of freeboard
6. ☐ Evidence of insufficient freeboard (<2 ft.)
7. ☐ A maintained cover
8. ☒ Unmaintained cover, no cover
9. ☒ No liner (one had plastic liner)
10. ☐ Single synthetic liner
11. ☐ Single clay or compacted soil liner
12. ☐ Double liner
13. ☐ Working leak detection system
14. ☐ Evidence of loss of fluid (other than by evaporation)

Additional

comments: There are not any liners except for one abandoned pond  
with plastic liner.  
There do not appear to be any controls for maintaining freeboard.  
No noticeable leaks were documented.



C. CONTAINMENT--DRUMS AND SMALL CONTAINERS

(SW-9; A-11;  
GW-11)

Present Yes How many? Unknown (Also see Lab Site)

Check those that apply:

1. ☒ No functional containment
2. ☐ There is secondary containment capacity for the total volume of containers
3. ☐ There is secondary containment with capacity for at least 110% of volume of the largest container
4. ☐ The secondary containment is less than 110% of the volume of the largest container
5. ☐ The containers are stored in single, or double layers on pallets, or in racks
6. ☐ The containers are stored in an unstable manner
7. ☐ Some containers are open or have visible liquid
8. ☐ Some containers are leaking
9. ☒ Containers are protected from weather
10. ☐ Containers showing deterioration
11. ☐ Containment surface is impervious
12. ☐ Containment surface has cracks or semi-permeable
13. ☒ No base material/permeable base such as gravel/base materials unknown
13. ☐ Containment is regularly inspected and maintained
14. ☐ Evidence of containment failure

Additional

comments: Some containers are located in buildings and are inspected.

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E. CONTAINMENT--WASTE PILES (SW-10; A-13; GW-12,13)

Present? Yes How many? 2

Check those that apply:

1. ☒ Waste pile is outside, no protecting structure
2. ☐ Waste pile is outside, in open structure with roof
3. ☐ Waste pile is outside, with partial or unmaintained cover
4. ☐ Waste pile is outdoors, with maintained cover
5. ☒ No cover is present
6. ☐ Waste pile is fully enclosed, intact building
7. ☐ There is an engineered run-on/run-off control
8. ☐ The run-on/run-off is maintained
9. ☐ Run-on/runoff control present, unknown condition
10. ☒ No run-on/runoff control system present, or unknown if present
11. ☒ Liner or base present; ☐ Not present.
12. ☐ Single clay or compacted soil liner
13. ☐ Single synthetic liner
14. ☐ Double liner
15. ☐ Maintained, functioning leachate collection system
16. ☐ Leachate collection system; ☐ Unknown condition; or ☐ Not functioning.

Additional

comments Waste pile actually represents material that has been  
dredged from lagoons and placed in depressions that have now been  
built above grade of surrounding area.

F. CONTAINMENT--SPILLS, DISCHARGES, AND CONTAMINATED SOIL  
(SW-10,11; A-13,14; GW-13)

Check those that apply: (See Lab Site)

1. ☐ Spill, discharge, or contaminated soil only in the subsurface at the site--including dry wells, drain fields, leaking underground storage tanks
2. ☐ Soil contamination that has been covered partially excavated and filled with at least 6 inches of clean soil
3. ☐ Soil contamination that has been covered or partially excavated and filled with less than 6 inches of clean soil
4. ☐ Uncontaminated soil cover >2 feet thick
5. ☐ No cover; or ☐ Cover <2 feet, but > 6" thick
6. ☐ Spill, discharge, or contaminated soil present at the surface in an area with maintained run-on/run-off control
7. ☐ Spill, discharge, or contaminated soil present at the surface in an area with unmaintained run-on/run-off controls?
8. ☐ Spill, discharge, or contaminated soil present at the surface with no run-on/run-off control or unknown controls?
9. ☐ Contaminated soil has been disturbed or excavated and stored above grade
10. ☐ A functioning vapor recovery system
11. ☐ No vapor recovery system

Additional  
comments \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

1. How would you evaluate the site soils? Circle predominant textural class.

\_\_\_\_ Poorly-graded sands with fines, silt-sand mixtures, loam, silt loam, sandy silt loam, clayey sand, clay sand loam?

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Clayey sands, sand-clay mixtures, clayey gravels, clay-sand-gravel mixtures, inorganic silts, clayey silt loam, silty clay loam, porous rock outcrop, sandy silty clay, sandy clay loam?

\_\_\_\_\_ Clay (organic and inorganic), clay loam, rock  
outcrop, peat, peaty clay?

2. Total annual precipitation= 8.8 in./yr (SW-12; WK-5)

3. Max. 2-yr/24-hr precip. = 10 inches (SW-14; WK-5)

4. Net precipitation (see 2.2, GW-13) = 3.0 in. (WK-9)

5. Is the site not in a flood plain? \_\_\_\_\_ (SW-14; WK-5)  
Is the site in a 500 year flood plain? X CP No. 5300360565A  
Is the site in a 100 year flood plain? \_\_\_\_\_

6. What is the terrain slope to the nearest surface water?  
2.8 % (SW-14,15; WK-6)

7. What is the subsurface hydraulic conductivity?  
10<sup>-1</sup> cm/sec (GW-14; WK-9)

8. What is the vertical depth from the deepest point of known contamination to ground water? 0-25 feet (GW-15; WK-9)

Additional  
comments:

#### IV. Targets

##### A. DISTANCE TO SURFACE WATER (SW-16; WK-6)

1. What surface water(s) (lake, stream, river, pond, bay, etc.) is/are within 10,000 feet (downgradient) of the site?

Name	Dist.-ft.	Obs.	Meas.
Columbia River	500		X (topo map)

None? \_\_\_\_\_ .Comments \_\_\_\_\_

2. What drinking water intakes are within 2 miles of the site? (all lake intakes, river intakes downstream only) (SW-12; WK-6)

None? X

Source	Location	Pop. Served

3. How much acreage (anywhere) is irrigated by surface water intakes (downstream only) or wells (anywhere) within 2 miles of the site? (SW-16; GW-18; WK-6,9)

None? \_\_\_\_\_

SURFACE WATER: Acres 141 (1600 acres max.)

Source(s) Columbia River, Unnamed slough;

GROUNDWATER: Acres 456 (4500 acres max.)

Source(s) wells

4. What is the distance to the nearest fishery resource (total of overland distance plus downgradient distance)? (SW-17; WK-6)

Over 10,000 feet? \_\_\_\_\_ Distance if less than 10,000 feet? 500 ft. Columbia River

5. What are the names of, and the distances to, the nearest sensitive environments (total of overland distances plus downgradient distances)? (SW-18; A-15; WK-6)

Over 10,000 feet? \_\_\_\_\_ Names and distances if less than 10,000 feet: Columbia River (500 ft.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Is the aquifer a federally-designated sole source aquifer? \_\_\_\_\_ (GW-16; WK-9)

7. Is the ground water used for: (GW-16; WK-9)

☒ private supply  
☒ public supply  
☒ irrigation of human food crops or livestock  
☒ non-food (human) vegetation  
\_\_\_\_\_ not used due to natural contaminants  
\_\_\_\_\_ ground water not used, but usable

8. Distance to nearest drinking water well? < 600 feet (GW-17; WK-9)

9. Is there an alternate source available to groundwater for private or public water supply? (WK-9) No  
Best Professional Judgement

10. Population served by drinking water wells within 2 miles? 144 (GW-17; WK-9)

Public Water Supply = 30 Private:  $38 \times 3 = 114$

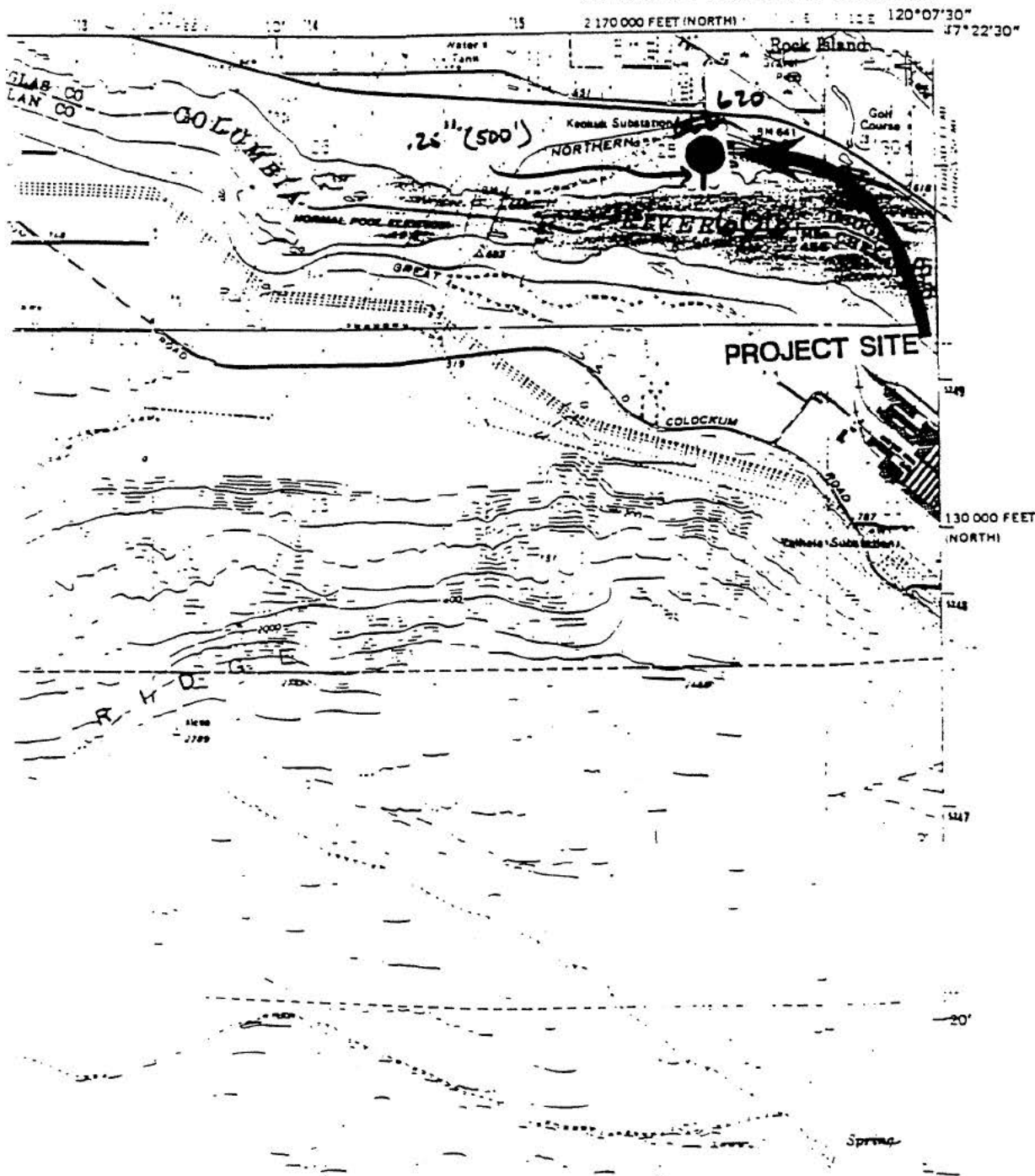
11. Distance to the nearest population? < 1000 feet (A-15, 16; WK-8)

12. Population within one-half mile radius? 220 (A-16; WK-8)

Additional comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

MALAGA QUADRANGLE  
WASHINGTON  
7.5 MINUTE SERIES (TOPOGRAPHIC)

138° 16' W  
MALAGA V61



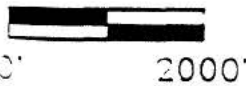
SITE LOCATION MAP

FIGURE 1.1

SILICON METALTECH  
ROCK ISLAND, WA



PROJECT NO. JTS1 007



Gradient  

$$\frac{620 - 606}{500} = 0.028$$



Permit: 1 2 Transitory: 3000 3000 2500 2500 2 2 2 2 2 2 2500 3000  
 Source: 1 MISSION R. SPRINGS SPRING FRI. CL2. 21N 19E 26

STATE OF WASHINGTON  
 PUBLIC WATER SUPPLY SYSTEM LISTING  
 H2O/SITES/TOXICS-SPD

ID NO.	SYSTEM NAME SYSTEM MAILING ADDRESS MANAGER/OWNER NAME BACTI SAMPLING SCHEDULE POPULATION SOURCE NO. SOURCE NAME	COUNTY CITY, ST ZIP TELEPHONE	CLASS	ACTUAL MAY	FEIN JUN	JUL	AUG	SEP	OCT	NOV	DEC	TWP	RNG	SEC
		JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC												
		CATEGORY TYPE INTERTIE	DEPTH CAPACITY	TREATMENT										
768648	SCOUT A VISTA COUNTY ANNEX BLDG	CHELAN WENATCHEE, WA 98801	Class: 2 13 0											
	Bacti: 1/month Perm: 1 Source: 1	SPRING FRI.	NONE.									21N	20E	18
386640	CROWN ESTATES NO. 1 4401 JOE MILLER ROAD Mgr: GARY KING Bacti: once/12 months Perm: 40 Source: 1 CROWN WELL #1	CHELAN MALAGA, WA 98828 (509) 663-2901	Class: 4 9 0											
		WELL FRI.	158' 15 NONE.									21N	21E	SE
297518	LAUREL HILL SERVICE ASSOCIATION 5316 BIG SPRINGS RANCH ROAD Mgr: RON ROWLAND Bacti: once/ 3 months (*) Perm: 50 Source: 1 SPRING #1 Source: 2 SPRING #2 Source: 3 WELL	CHELAN WENATCHEE, WA 98801 662-1701	Class: 2 17 18											
		SPRING FRI.	123' 12 NONE.									21N	21E	7
		SPRING FRI.	NONE.									21N	21E	7
		WELL FRI.	185' 12 NONE.									21N	21E	7G
84056W	STEMILT IRRIGATION DISTRICT 6001-16 STEMILT LOOP RD. Mgr: JEAN RACUS, SEC. Bacti: 1/month Perm: 168 Source: 1 SPRING	CHELAN WENATCHEE, WA 98801 663-3208	Class: 2 55 0											
		SPRING FRI.	70 CL2.									21N	21E	140
14062V	COLOCKUM MULT USE RES UNIT 8774 COLOCKUM RD Mgr: THOMAS A. BRANNON Bacti: Variable: Perm: 8 Transitory: Source: 1 WELL #1	CHELAN MALAGA, WA 98828 (509) 663-6400	Class: 3 4 0											
		A A A BM q q q q q q A A												
		8 8 8 60 60 60 60 60 60 60 8 8												
		WELL FRI.	183' 10 NONE.									21N	21E	33H
73380V	ROCK ISLAND DAM POWER HOUSE #2 C/O PO BOX 1231 Mgr: RICH WILLIAMS Bacti: once/12 months Perm: 0 Transitory: Source: 1 WELL #1	CHELAN WENATCHEE, WA 98801 663-8121	Class: 4 0 0											
		12 12 12 12 12 12 12 12 12 12 12 12												
		WELL FRI.	242' 240 NONE.									21N	22E	5

Clallam

Mark

STATE OF WASHINGTON  
PUBLIC WATER SUPPLY SYSTEM LISTING  
H2O/SITES/TOXICS-SPD

PAGE 66  
02/16/97

ID NO.	SYSTEM NAME SYSTEM MAILING ADDRESS MANAGER/OWNER NAME BACTI SAMPLING SCHEDULE POPULATION SOURCE NO. SOURCE NAME	COUNTY CITY, ST ZIP TELEPHONE	CLASS	ACTUAL APR	POTEN MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TWP RING SEC
324018	(b) (6) Bacti: once/12 months Perm: 10 Source: 1 WELL	CHELAN WENATCHEE, WA 98801 662-0771	Class: 4	2	0								
		WELI PRI.	33'	15	NONE.								22N 19E 13
322875	(b) (6) Mgr: (b) (6) Bacti: once/12 months Perm: 10 Source: 1 WELL A	CHELAN WENATCHEE, WA 98801 (509) 662-0771	Class: 4	2	0								
		WELI PRI.	46'	22	NONE.								22N 19E 13
41114M	HUGHES/MAIN WATER SYSTEM 2138 CHAPMAN RD. Mgr: DAVID HUGHES Bacti: once/12 months Perm: 5 Source: 1 WELL	CHELAN WENATCHEE, WA 98801 (509) 663-1024	Class: 4	2	0								
		WELI PRI.	400'	11	NONE.								22N 20E 22A
102112	(b) (6) Mgr: (b) (6) Bacti: once/12 months Perm: 0 Source: 1 WELL #1	CHELAN WENATCHEE, WA 98801 662-8070	Class: 4	3	0								
		WELI PRI.	190'	37	NONE.								22N 20E 24
52465X	(b) (6) Bacti: once/12 months Perm: 10 Source: 1	CHELAN WENATCHEE, WA 98801	Class: 4	3	0								
		WELL PRI.	60'	7	NONE.								22N 20E 36
469984	LERAY #1 (b) (6) Mgr: (b) (6) Bacti: once/12 months Perm: 8 Source: 1 LERAY #1	CHELAN E WENATCHEE, WA 98801 (509) 664-4007	Class: 4	2	7								
		WELI PRI.	250'	100	NONE.								22N 21E 21K
379210	K B ALLOYS, INC. 4400 KAWECKI ROAD Mgr: ROBERTA MOODY Bacti: once/ 3 months (+) Perm: 0 Source: 1	CHELAN MALAGA, WA 98828 (509) 663-2165	Class: 3	0	0								
		WELI PRI.	200'	300	NONE.								

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AUG SEP OCT NOV DEC  
TWP RNS SEC

600 600 600 600 600  
22N 22E 21L  
22N 22E 31E

7 43 37 3 11  
22N 28E 30

23N 17E 7

30 30 20 20 10  
23N 17E 24

100 100 75 50 50  
23N 17E 24

14 14 14 14 14  
23N 17E 24



PAGE: 47  
02/14/04

[illegible][illegible][illegible][illegible]

UNION						CLASS : 1							
NATURAL NO. 700125													
(5-9) 662-1396						166		399					
<hr/>													
50	50	50	50	50	50	50	50	50	50	50	50	50	50
WELL	FRI.		1000			NONE						NON	218
WELL	FRI.		1012			NONE						NON	218

[illegible]

Date Recd. No. of BSA. Due 7/13/75 (C) 75 763-7900	Date Recd. No. of BSA. Due 7/13/75 (C) 75 763-7900
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[illegible]

2015/11/10

York

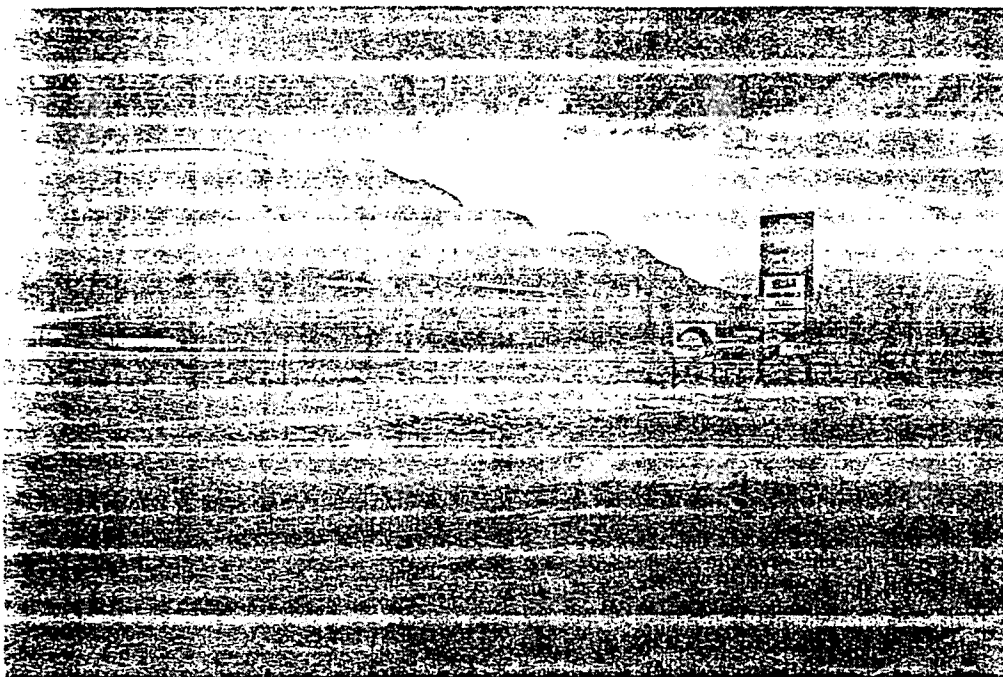
6017

**INDEX**

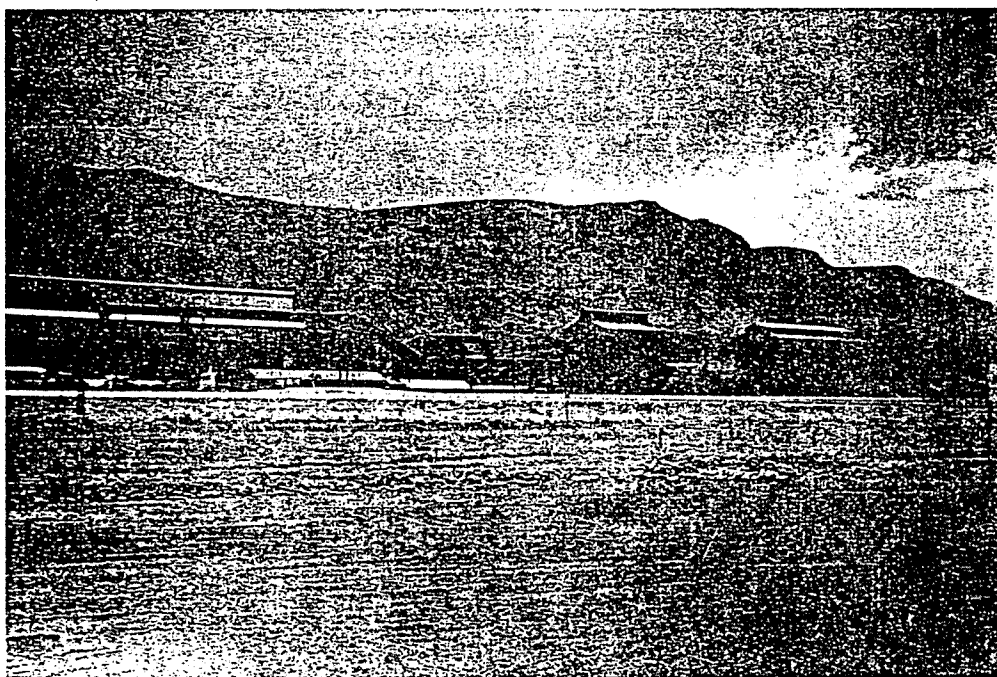
**First**

ATTACHMENT III  
PHOTOGRAPH LOG  
SILICON METALTECH, INC.

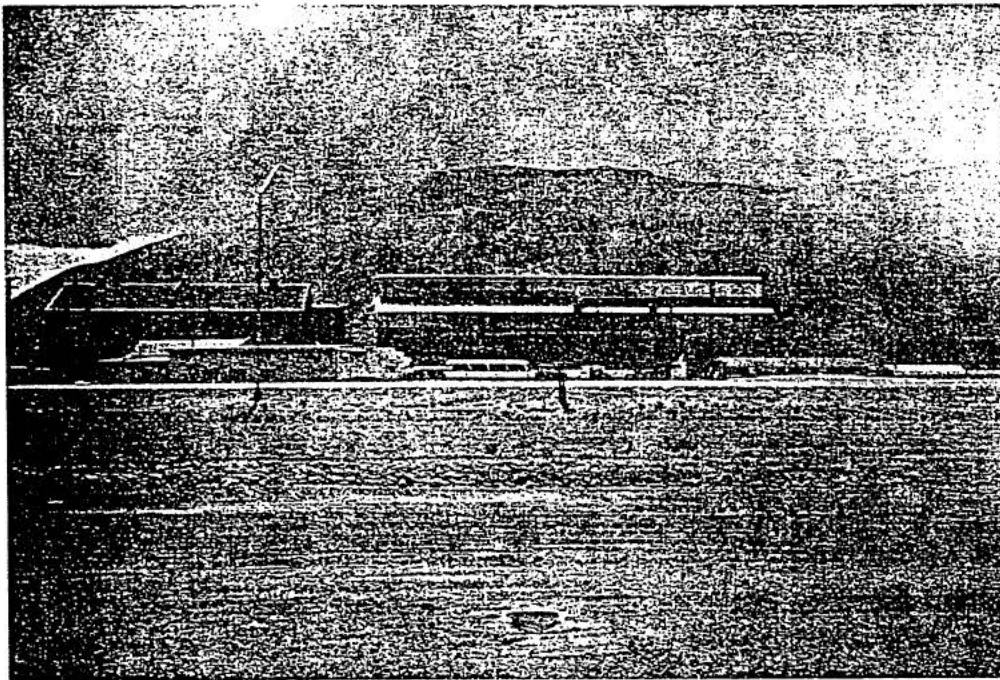




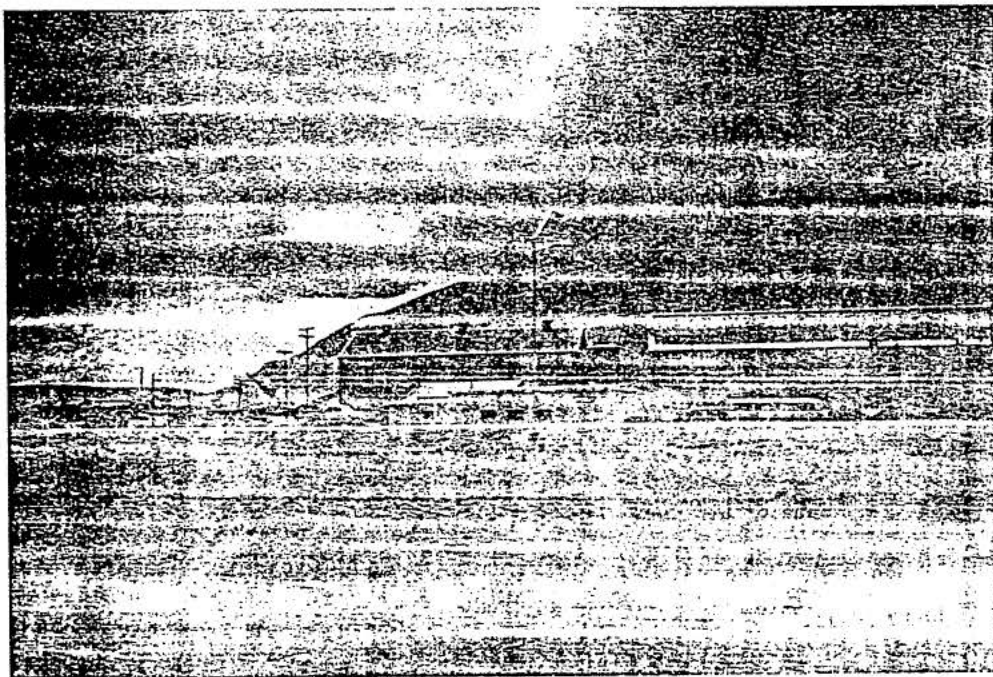
1 Bag Houses located at north end of plant; view is to the northwest.



2 Bag Houses and duct-type work that carries fume dust to Bag Houses; view is to the northwest.



- 3 Main Portion of Plant including Furnace Building (center) and Raw Materials Building; view is to the west.

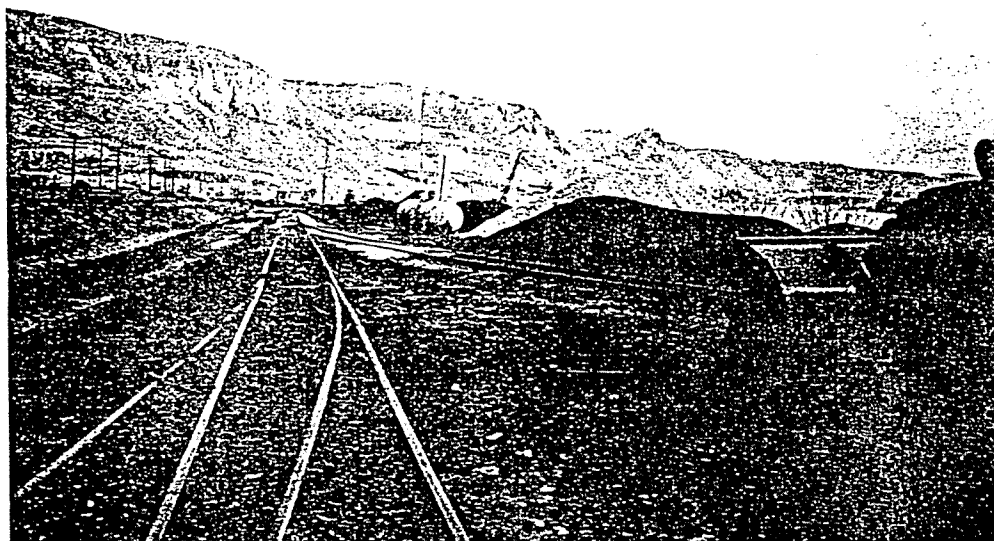


- 4 Main Portion of Plant including Furnace Building is to the right and Raw Materials Building is in the center; view is to the southwest.

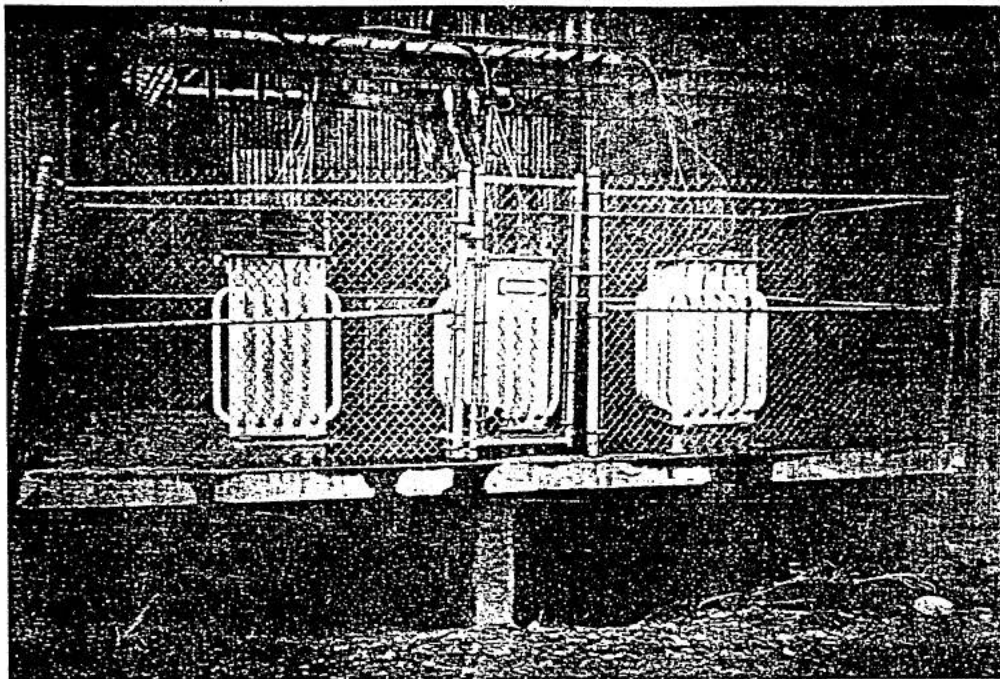




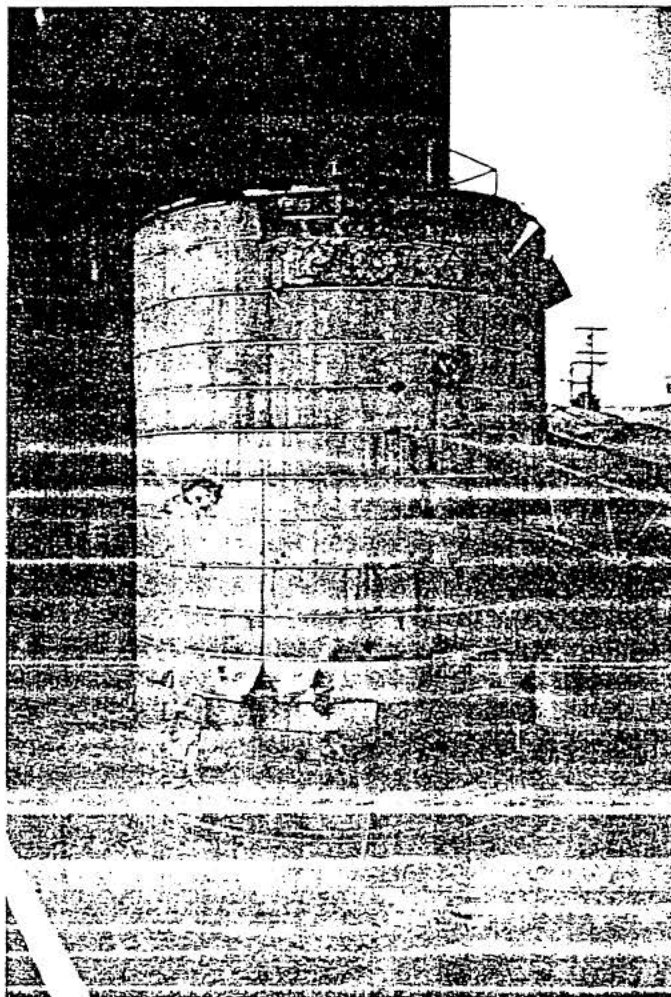
- 5 View of EZ Auto Wrecking in front of Silicon Metaltech where many 55-gallon drums are stored.



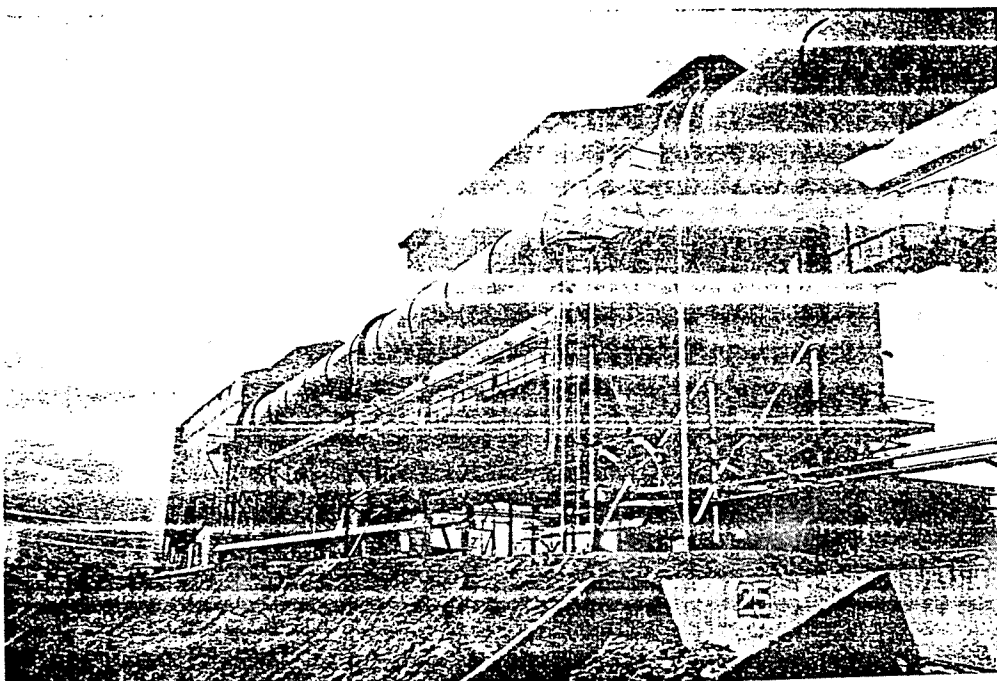
- 6 View of Raw Materials Storage Area (black material is coal, white material is quartzite) and propane tank; view is to the south.



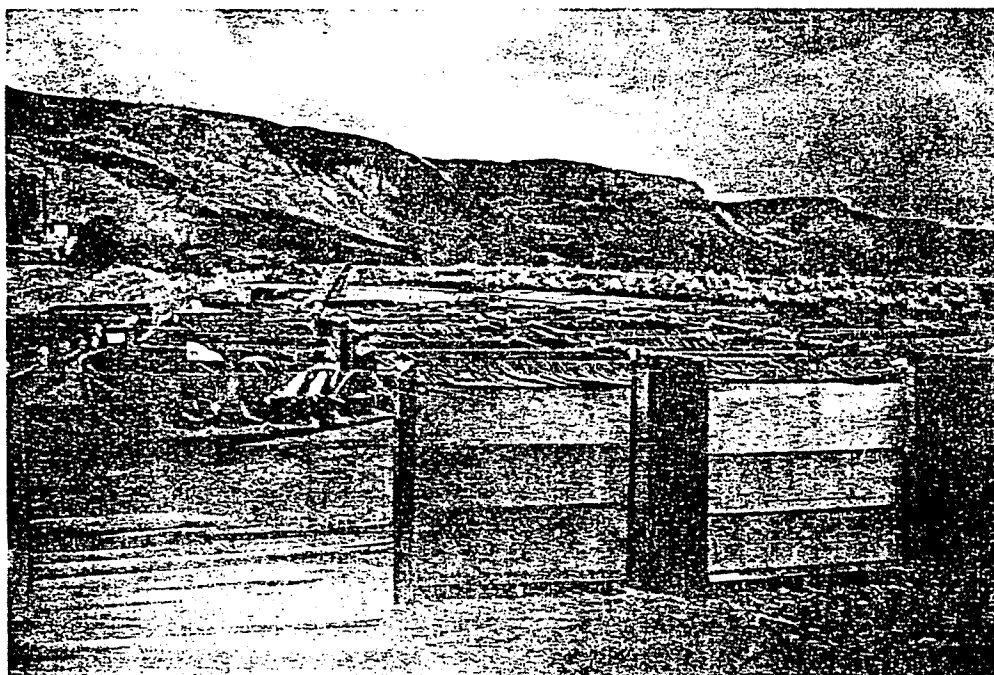
7 Block of transformers located next to Raw Materials Building; view is to the east.



8 Above-ground molasses (liquid) tank which is used as a binder for briquets in furnaces; view is to the northeast.



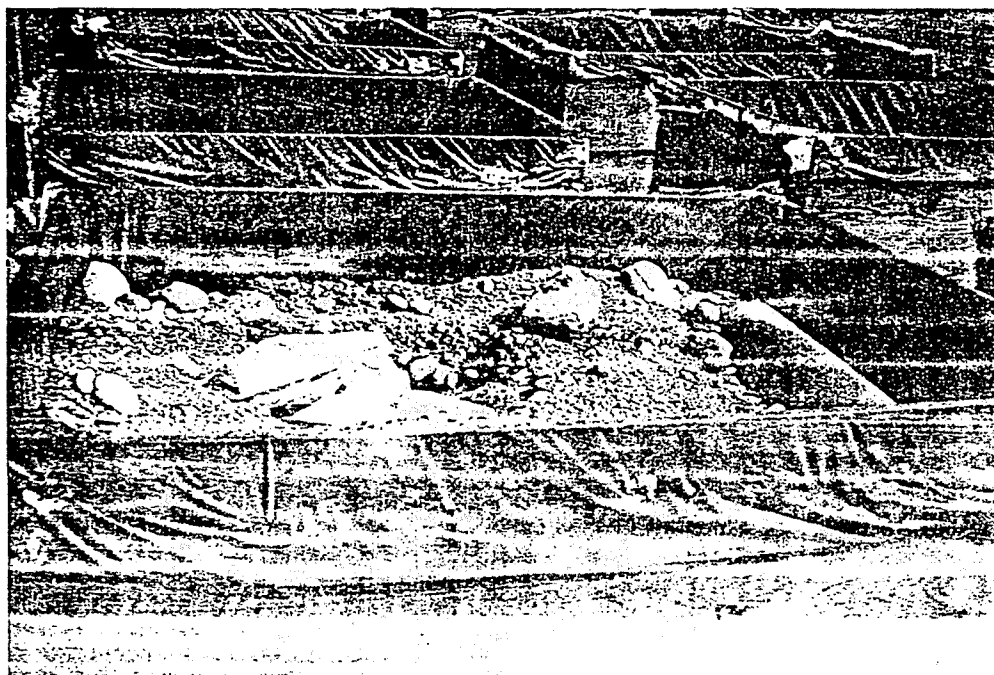
9 Duct-type work which carries fume dust to Bag Houses; view is to the north.



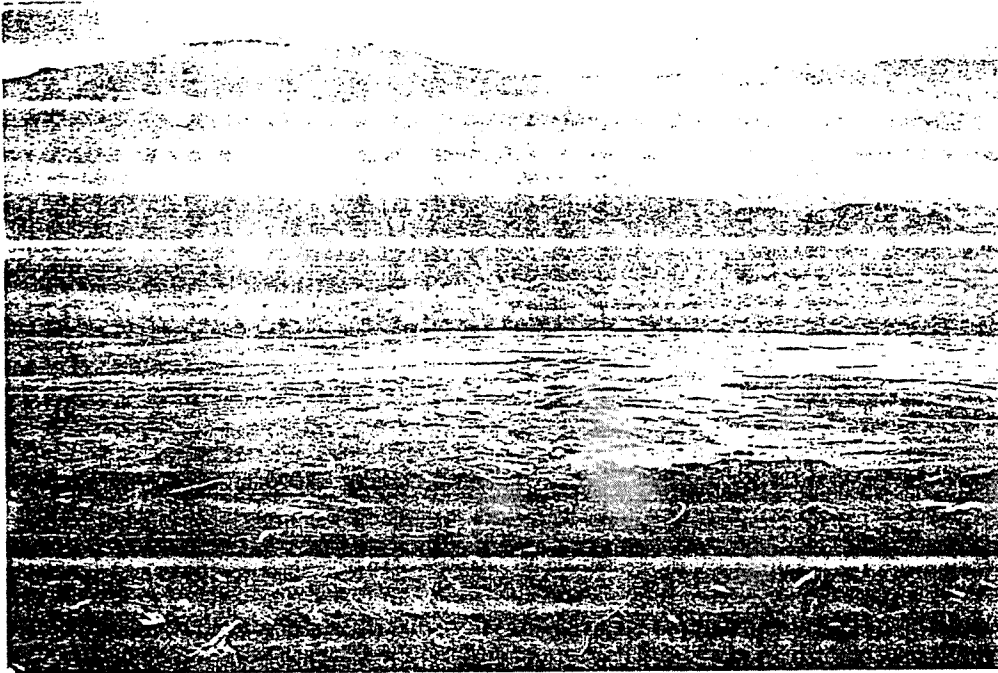
10 Crates which hold mercury-contaminated soil; view is to the southeast.



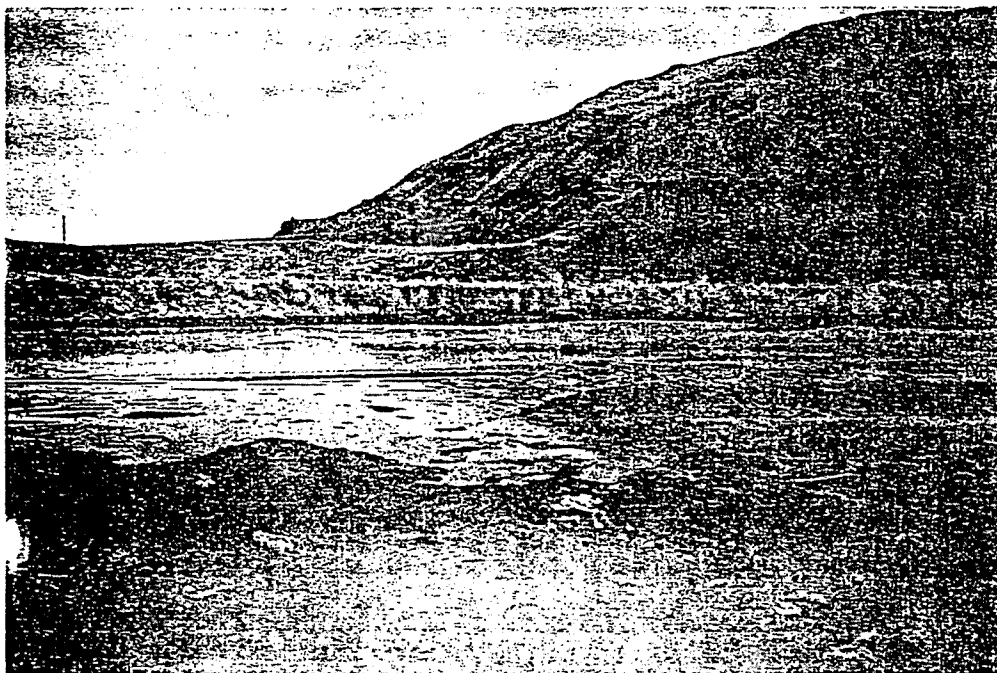
11 Crates which hold mercury-contaminated soil. Robert Miller of Silicon Metaltech is pictured.



12 Close-up view of mercury contaminated soil and drain piping.



13 Former fume dust settling pond, due west of main building. Rainwater currently is present in pond; view is to the west.



14 Former fume dust settling pond, due west of main building; view is to the west.





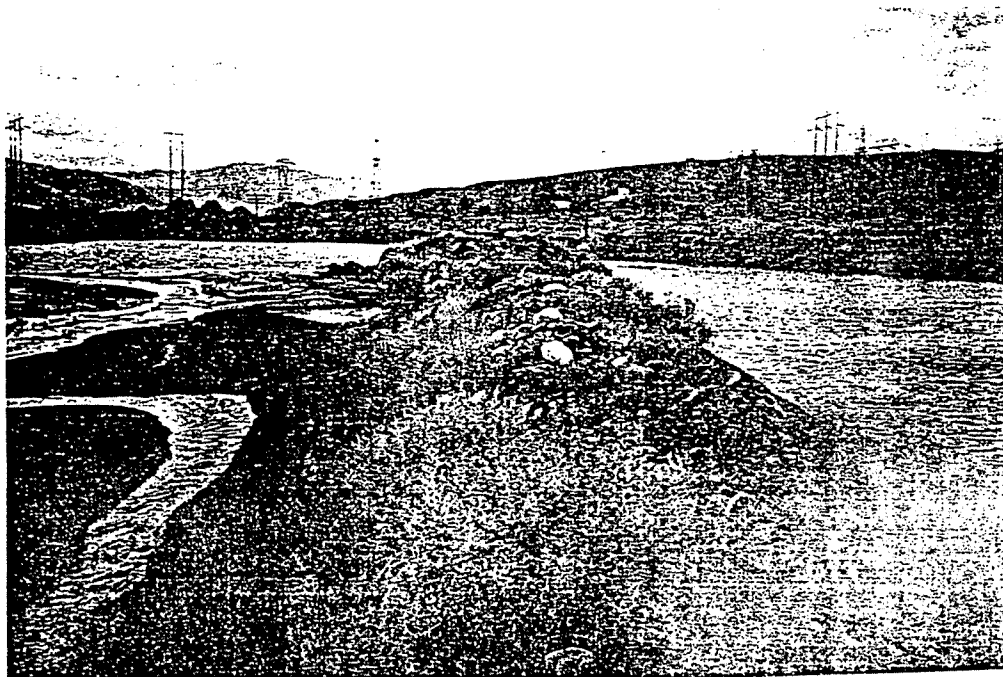
15 Former fume dust settling pond; view is to the southeast.



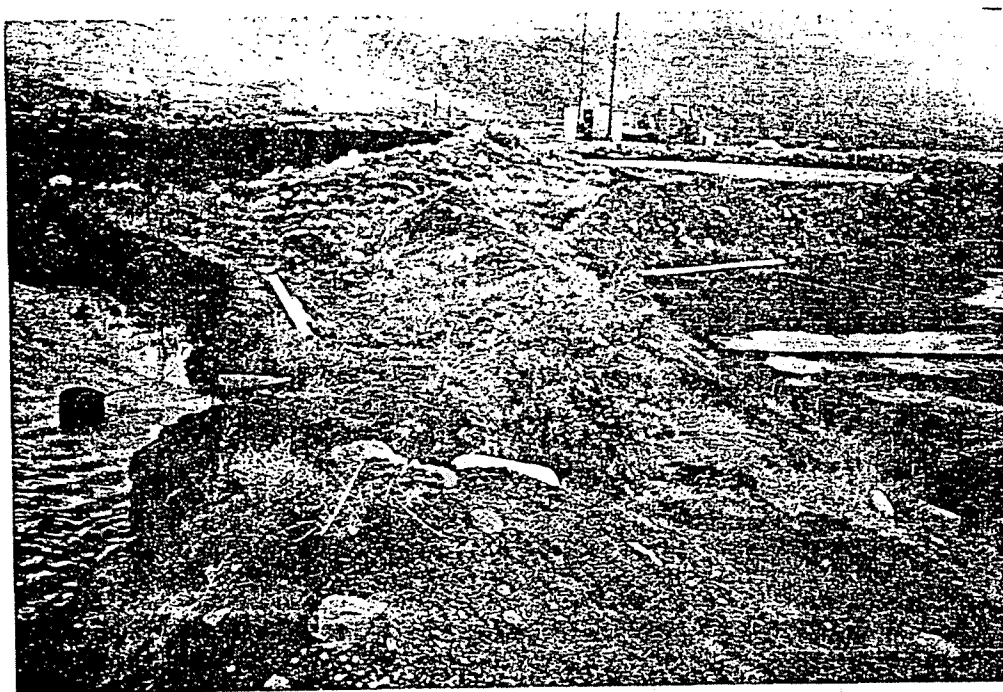
16 Solid waste disposal area; view is to the north.



17 Active fume dust settling ponds. Water flows into Pond #1 and then toward top of photograph, then to the right to Pond #2; view is to the north.



18 Water flows from settling Pond #1 on left to Pond #2 on right; view is to the north.

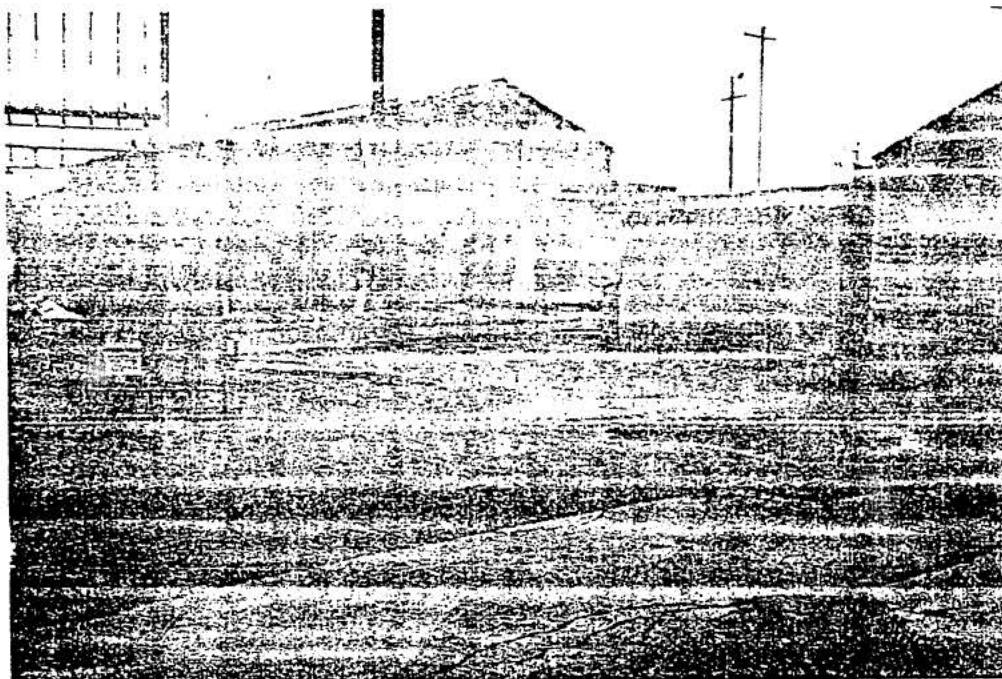


19 Water flows from Pond #2 (left) to Pond #3 (right); view is to the east.

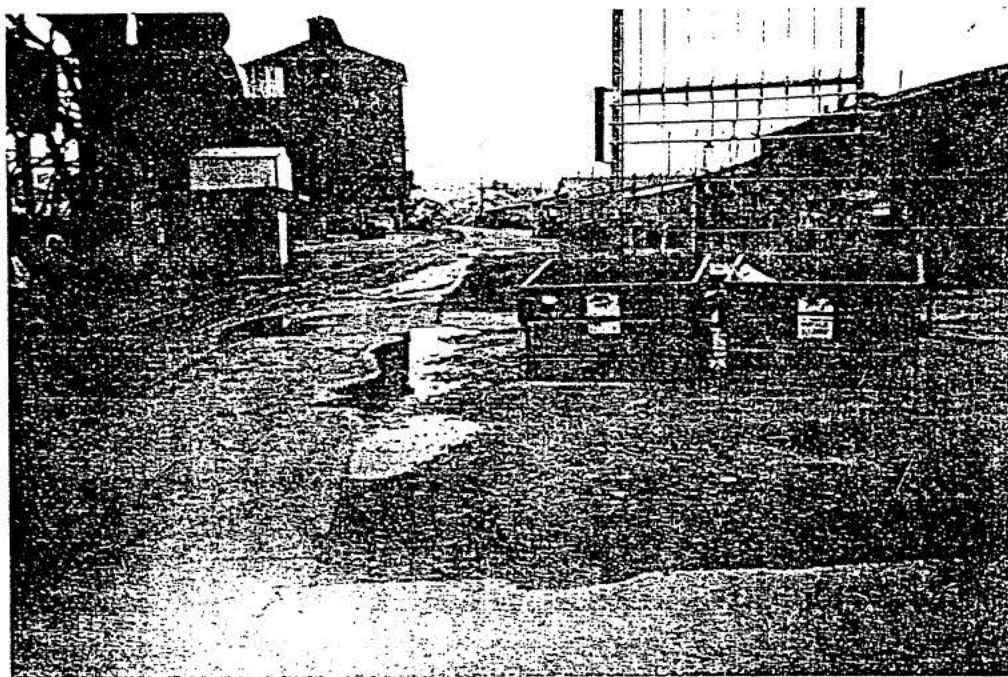


20 Inactive pond that is lined with plastic. Columbia River in background; view is to the south.

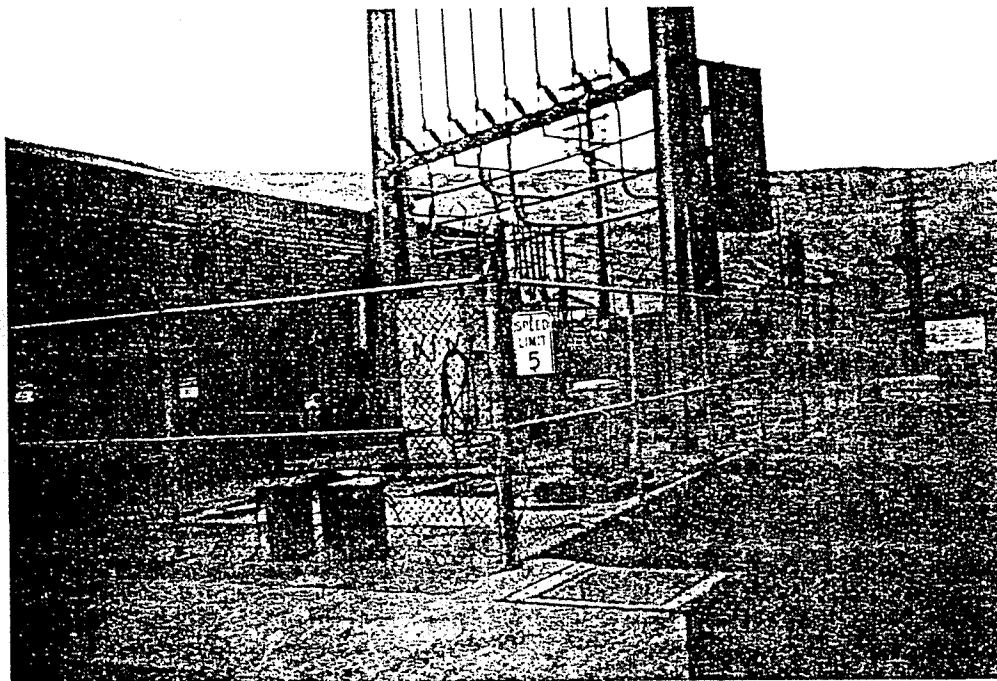




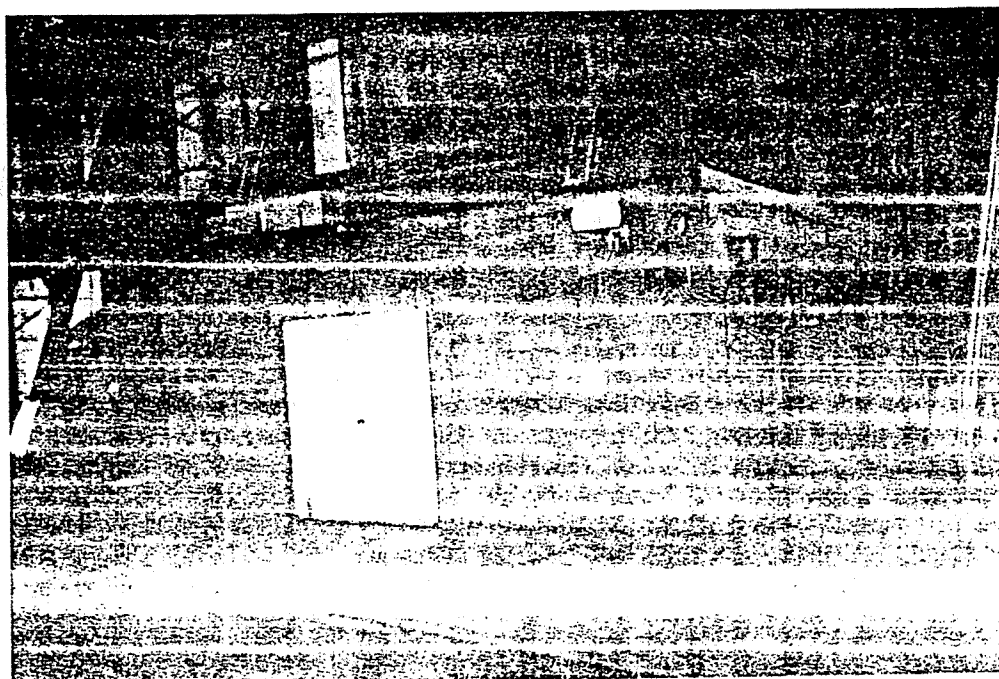
21 Area where mercury-contaminated soil was removed and placed in crates; view is to the northeast.



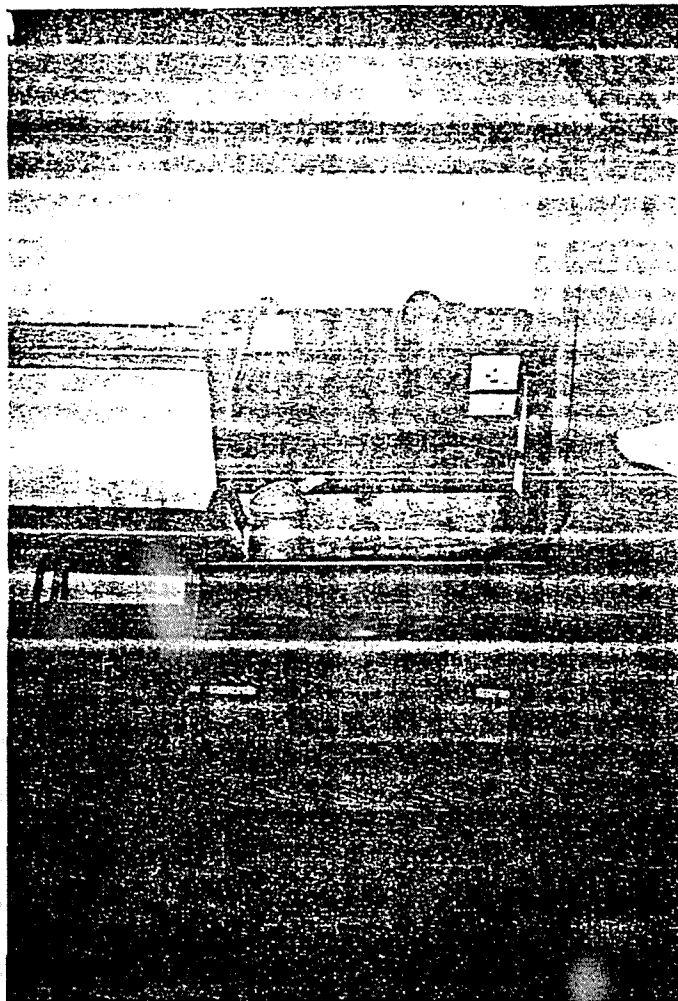
22 Area where mercury-contaminated soil was removed and placed in crates. Drain-field formerly flowed toward asphalt; view is to the north.



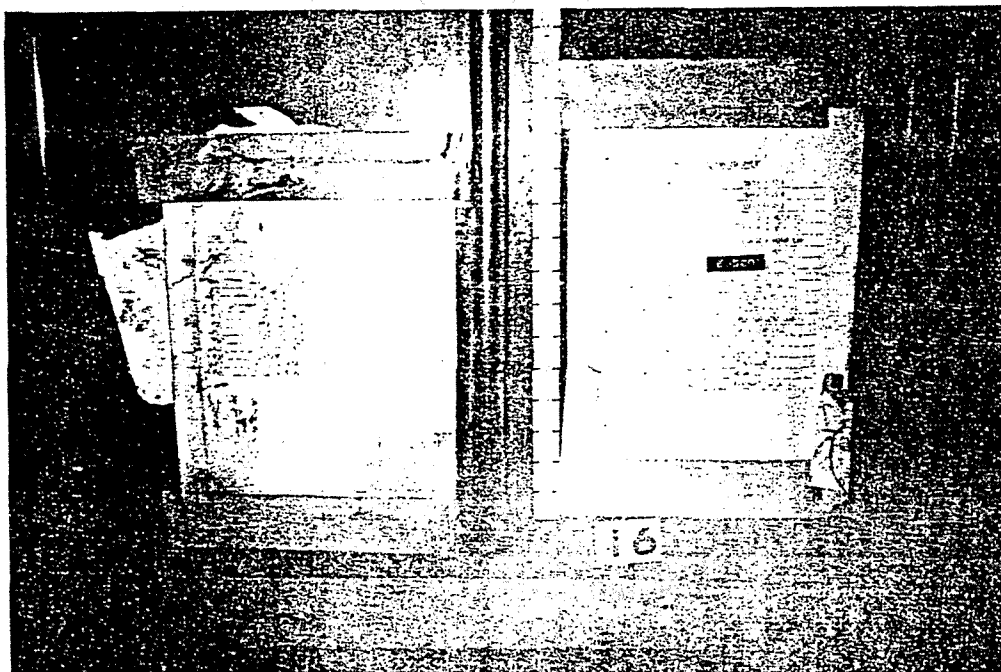
23 Transformers located north of where mercury-contaminated soil was located; view is the southeast.



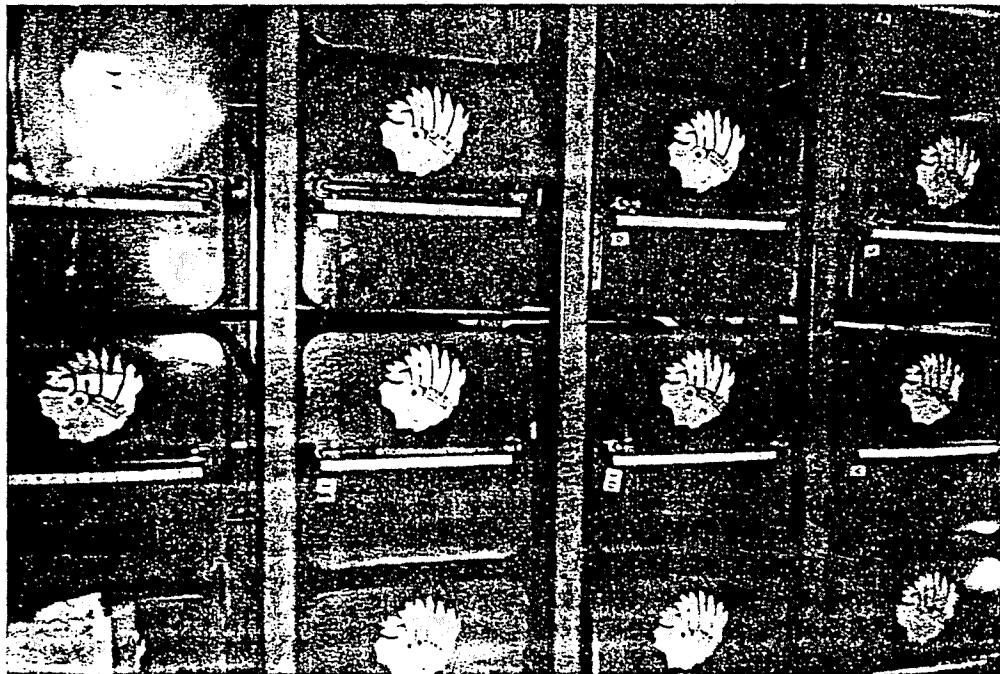
24 Glycol Building; view is to the west.



25 Safety Kleen parts cleaner station.



26 Lubricants storage building with list of lubricants used at the facility.



27 Lubricants stored at facility.

ATTACHMENT IV  
FIELD NOTES  
SILICON METALTECH, INC.



## INDEX

Property of

*Rick Horner / Greg Velebit*

Address

Telephone

This Book is manufactured of a High Grade  
50% Rag Paper having a Water Resisting Surface,  
and is sewed with Nylon Waterproof Thread.

*Silicon Metal Tech.*

Laborsburg  
Oct. 11/77

11/15/19

Adams, William

5.11.11

~~Watters -~~ ~~\$~~ 1.90 - nothing there

10/11/1914 - 4000 ft

Sept 11 - Discharge  
Sept 14 - for bio -  
Sept 14 - for bio -

Chlorine - Meas. & marking

not

*[Handwritten scribbles]*

1 - 10/11/1971 - 10/11/1971

1940-5/11/11

[illegible]

Labels - date - initials

Correcting the

Analysis -

Wright of Annapolis -  
Harrisburg Pa. 4.13.74

These are the  
studies to  
date

[illegible][illegible]

APR 11 1964



(5)

- back to 11th - waste material
- dug up old dry well -
- hose on - 5 ft, well -
- depth of monitoring well
- 125'
- one well at 60-80 feet
- up gradient -
- spring gradient toward
- town - well under
- 1,600 - 1,700 gpm
- only rain and water
- @ a time -
- cooling -
- well water used for all
- purposes -
- have closeup of
- freq. of water in NIPDES
- permit -
- sample along water
- once a month -
- bacteria -
- sample NIPDES quarterly -
- pH temperature flow rate -
- was tested for a long
- list of parameters per







(S.F.)  
rest bank

above ground for  
draining transverse -

- state drainage near  
bank where checked

~ 50 ppr

- near natural bdy - head  
below 50 ppr beds

- above ground part near

near natural bdy - ligand -

measures - border for

Drainage - see measures

- good property

- 3 sandy l/ae - obtain

- comp in water and  
bdy -

- completed white visit

(at 16.15 - well back

for measures to  
various sections

15-15-91

(9)

End of

15-15-91

(101)

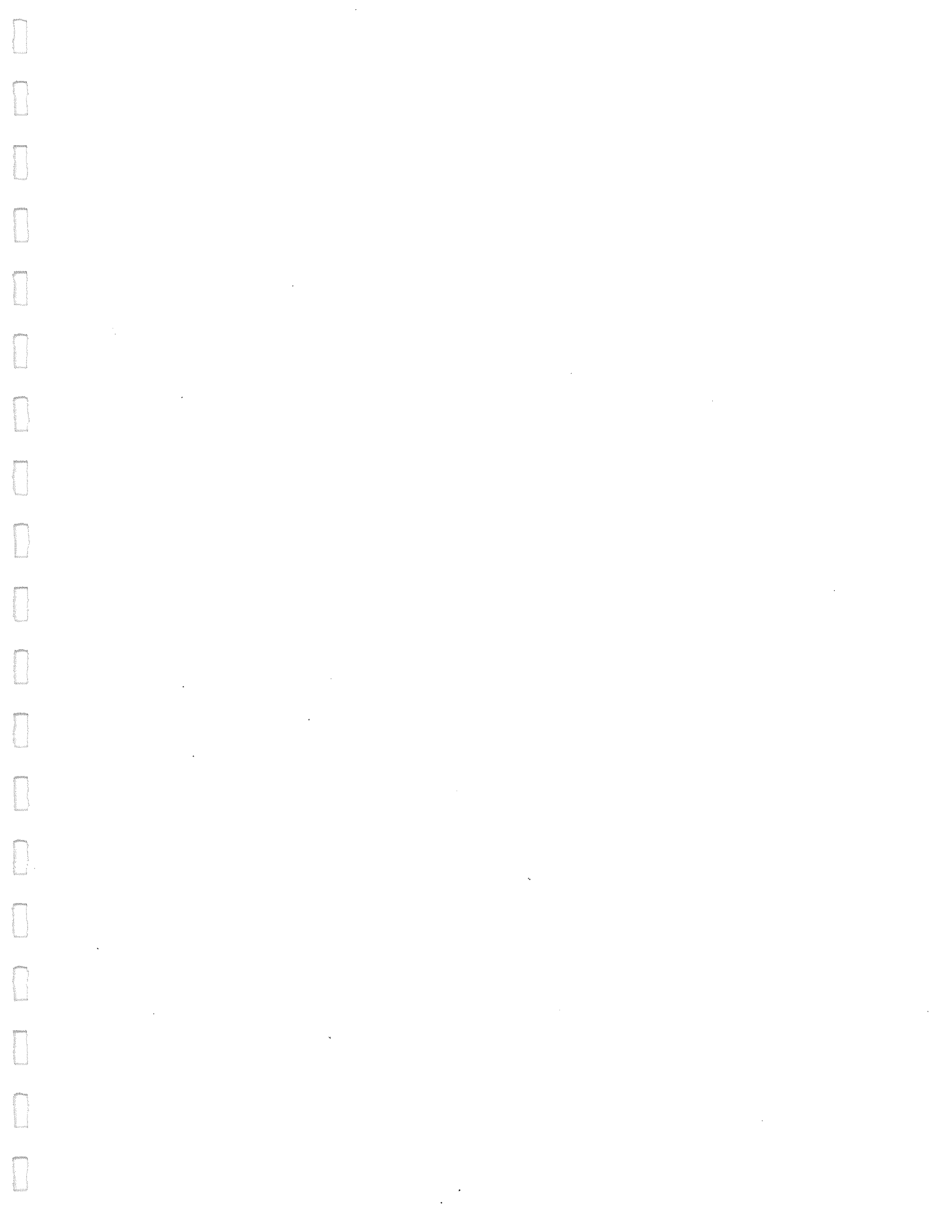
Answer to question  
received from Robert D. Model  
with 5/1/60 Model  
-Enc.



ATTACHMENT V

NEARBY WELL LOGS

SILICON METALTECH, INC.





R 21 (E) (W)

R 22 (E) (W)

*Ineed  
Malaga  
good*

T 22 N

T 21 N

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	19	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36
6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
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19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36

Township, Range, and Section Diagram for Determining Well Data Collection Needs

Address PO Box 361 Kona, Hawaii 96751

(2a) STREET ADDRESS OF WELL (or nearest address): 100 4<sup>th</sup> St Rock Island wa. 98250

ECY 050-1-20 (10/87) -1329-

File Original and First Copy with  
Department of Ecology

Second Copy—Owner's Copy  
Third Copy—Driller's Copy

# WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. \_\_\_\_\_

Project # 36-88

Water Right Permit No. \_\_\_\_\_

(1) OWNER: Name Silicon Melt Tech Address PO Box 361 Wenatchee wa. 98807

(2) LOCATION OF WELL: County Douglas SW x NE x Sec 15 T 22 N. R 21 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 100 4<sup>th</sup> Street Rock Island WA 98850

(3) PROPOSED USE: ☐ Domestic ☐ Industrial ☐ Municipal ☐  
☐ Irrigation ☐ Test Well ☒ Other ☐  
☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) Well no. 1 27'  
Abandoned ☒ New well ☐ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☐ Driven ☐  
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.  
Drilled \_\_\_\_\_ feet. Depth of ~~completed~~ well 27 ft.

## (6) CONSTRUCTION DETAILS:

Casing installed: \_\_\_\_\_" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Welded ☐ \_\_\_\_\_" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Liner installed ☐ \_\_\_\_\_" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Threaded ☐ \_\_\_\_\_" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☒ No ☐  
Type of perforator used Rotary air  
SIZE of perforations 3/4 in. by 1/4 in.  
500 perforations from -5 ft. to 27' ft.  
4 Rolls perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes ☐ No ☐  
Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes ☐ No ☐ Size of gravel \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☐ No ☐ To what depth? \_\_\_\_\_ ft.  
Material used in seal \_\_\_\_\_  
Did any strata contain unusable water? Yes ☐ No ☐  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ H.P. \_\_\_\_\_

(8) WATER LEVELS: Land-surface elevation above mean sea level \_\_\_\_\_ ft.  
Static level \_\_\_\_\_ ft. below top of well Date \_\_\_\_\_  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made? Yes ☐ No ☐ If yes, by whom? \_\_\_\_\_  
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
------	-------------	------	-------------	------	-------------

Date of test \_\_\_\_\_

Bailer test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Air test \_\_\_\_\_ gal./min. with stem seal at \_\_\_\_\_ ft. for \_\_\_\_\_ hrs.

Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_

Temperature of water \_\_\_\_\_

## (10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Casing cut off		
2' below ground		
perforated		
pressure grouted		
To Top with		
Portland Cement + 4% Bentonite		

9 sacks cement  
1/2 sack Bentonite

DEC 28 1988

Work started 11-30 1988 Completed 12-1 1988

## WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME 5B<sup>5</sup> Drilling (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 342 NW 27<sup>th</sup> St E. Wenatchee WA 98807

(Signed) Richard P. Bergquist License No. 0780  
(WELL DRILLER)

Contractor's Registration No. FIVE BD 13046 Date 12-26 1988

# WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 011019

Water Right Permit No.

(1) OWNER: Name SILICON METALTECH INC Address PO Box 361 Wenatchee WA  
(2) LOCATION OF WELL: County DOUGLAS Gov Lot 2 & Sec 25 T 22 N. R. 21 W.M.  
(2a) STREET ADDRESS OF WELL (or nearest address) ROCK ISLAND WA

(3) PROPOSED USE: ☐ Domestic ☒ Industrial ☐ Municipal ☐  
☐ Irrigation ☐ Test Well ☐ Other ☐  
☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) Replacement No 2  
Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☒ Driven ☐  
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 20 inches.  
Drilled 105 feet. Depth of completed well 105 ft.

## (6) CONSTRUCTION DETAILS:

Casing installed: 20 Diam. from 0 ft. to 74 ft.  
Welded ☒ Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Liner installed ☐ Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Threaded ☐ Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☐ No ☒

Type of perforator used \_\_\_\_\_

SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes ☒ No ☐

Manufacturer's Name JOHNSTON

Type Tele Model No. \_\_\_\_\_

Diam. 18" Slot size 100 from 74 ft. to 105 ft.

Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel \_\_\_\_\_

Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal: Grout (Cement)

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_

Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_

Type: \_\_\_\_\_ HP \_\_\_\_\_

(8) WATER LEVELS: Land-surface elevation \_\_\_\_\_ ft.

Static level 30 ft. below top of well Date 10-90

Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_

Artesian water is controlled by \_\_\_\_\_ (Cap. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? \_\_\_\_\_

Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

" " " " " "

" " " " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time Water Level Time Water Level Time Water Level

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Date of test: \_\_\_\_\_

Basin test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Air test \_\_\_\_\_ gal./min. with stem set at \_\_\_\_\_ ft. for \_\_\_\_\_ hrs.

Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_

Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes ☐ No ☒

## (10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
GRAVEL	0	19

SAND + GRAVEL	19	71
---------------	----	----

Water Bearing SAND	71	105
--------------------	----	-----

Bed ROCK	105	
----------	-----	--



(1) OWNER: Name C. H. Lou Co. PUD Address Wenatchee  
 (2) LOCATION OF WELL: County Douglas Lot 19 1/4 Sec. 25 T. 22N R. 24W  
 Bearing and distance from section or subdivision corner East Wenatchee lands Co. Plat of Sec 25

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐  
 Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....  
 New well ☒ Method: Dug ☐ Bored ☐  
 Deepened ☐ Cable ☒ Driven ☐  
 Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.  
 Drilled 63 ft. Depth of completed well 63 ft.

## (6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 63 ft.  
 Threaded ☐ " Diam. from " ft. to " ft.  
 Welded ☒ " Diam. from " ft. to " ft.

Perforations: Yes ☐ No ☒

Type of perforator used .....  
 SIZE of perforations ..... in. by ..... in.  
 ..... perforations from ..... ft. to ..... ft.  
 ..... perforations from ..... ft. to ..... ft.  
 ..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒

Manufacturer's Name .....  
 Type ..... Model No. ....  
 Diam. .... Slot size ..... from ..... ft. to ..... ft.  
 Diam. .... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....  
 Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☐ No ☒ To what depth? ..... ft.  
 Material used in seal .....  
 Did any strata contain unusable water? Yes ☐ No ☐  
 Type of water? ..... Depth of strata .....  
 Method of sealing strata off .....

(7) PUMP: Manufacturer's Name .....  
 Type: ..... H.P. ....

(8) WATER LEVELS: Land-surface elevation ..... ft.  
 above mean sea level .....  
 Static level 42 ft. below top of well Date 5/12/76  
 Artesian pressure ..... lbs. per square inch Date .....  
 Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....  
 Yield: gal./min. with ft. drawdown after hrs.  
 " " " " " "  
 " " " " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....  
 Bailer test 8 gal./min. with 0 ft. drawdown after 12 hrs.  
 Artesian flow ..... g.p.m. Date .....  
 Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☒

## (10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
<u>Sand &amp; Rock</u>	<u>0</u>	<u>39'</u>
<u>Sand</u>	<u>39</u>	<u>55'</u>
<u>Course River Sand</u>	<u>55'</u>	<u>63'</u>

RECEIVED

1976

DEPT. OF ECOLOGY  
 CENT. REGIONAL OFFICE

RECEIVED

NOV 10 1976

DEPARTMENT OF ECOLOGY  
 SPOKANE REGIONAL OFFICE

Work started 5/5 1976. Completed 5/12 1976

## WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Close well Drilling  
 (Person, firm, or corporation) (Type or print)

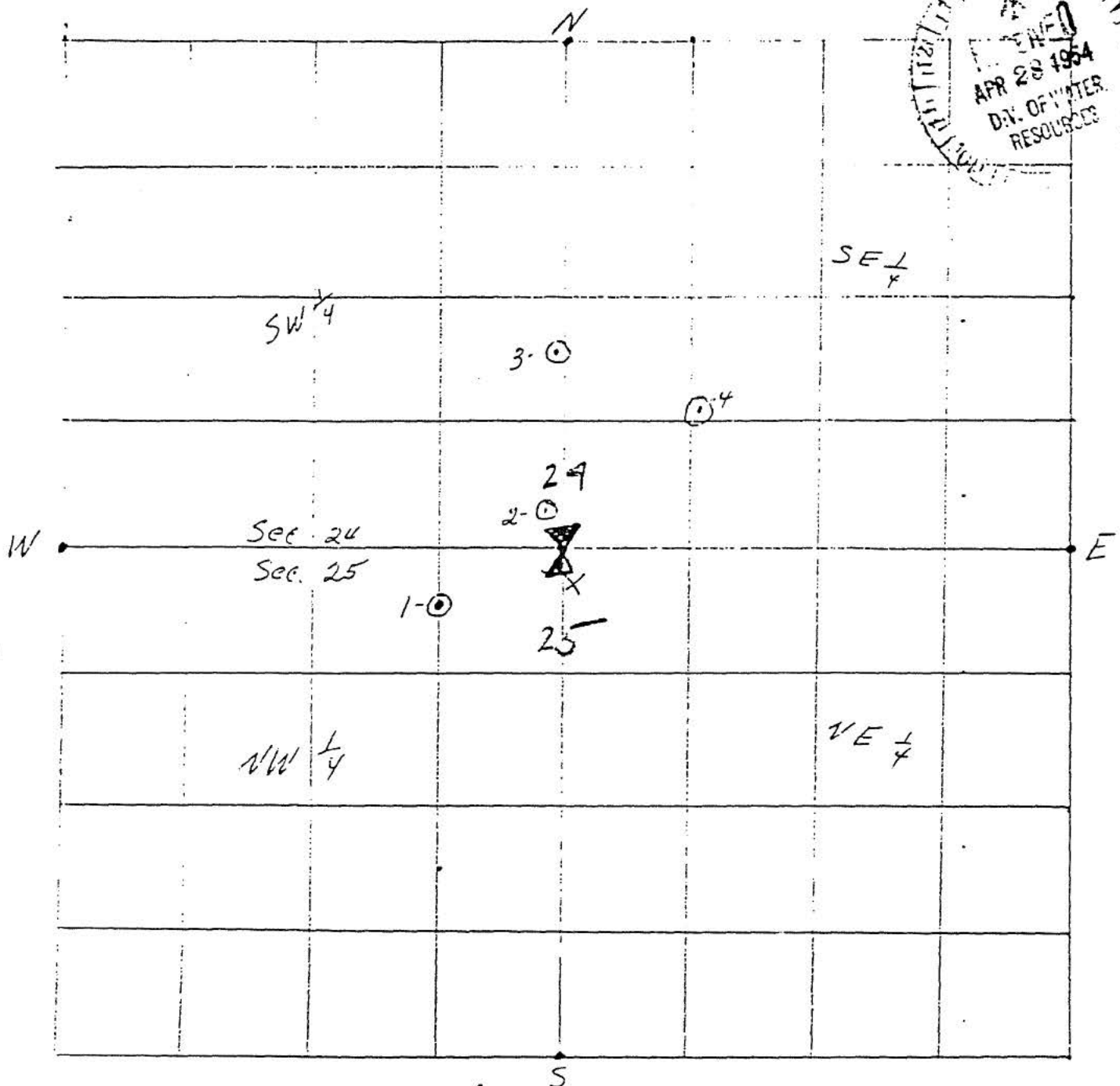
Address P.O. Box 125 Quincy IL

[Signed] Elmer H. Close  
 (Well Driller)

License No. 88 Date 5/13 1976

## SECTION PLAT =

Sec. 24 &amp; 25 Twp. 22 N. NR. 21 E



Show by a cross (X) the location of the well or other works covered by the application or declaration. Show by circle (O) the locations of other wells or works within a quarter of a mile. Also indicate traveling directions from nearest town on main highway.

Scale: 1 inch = 800 feet.

X. Town of Rock Island well, located in Lot 4, Block 1, Town of Rock Island, Douglas County.

- |                  |           |
|------------------|-----------|
| 1. Jack Morton   | 1144 feet |
| 2. A. J. Follett | 410 feet  |
| 3. Joe Sanders   | 1236 feet |
| 4. Mr. Pace      | 1144 feet |



(1) OWNER: Name (b) (6) Address Box 43, Rock Island, Ia.  
(2) LOCATION OF WELL: County Douglas - NE 1/4 NW 1/4 Sec. 25 T. 22 N. R. 21 W. M.  
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well  
(if more than one)....

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>
Deepened	<input type="checkbox"/>	Cable	<input type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	Rotary	<input checked="" type="checkbox"/>	Jetted	<input type="checkbox"/>

(5) DIMENSIONS: Diameter of well ..... 6 ..... inches.  
Drilled..... 50 ..... ft. Depth of completed well..... 50 ..... ft.

**(6) CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from +1 ft. to 50 ft.  
Threaded ☐ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Welded ☐ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☐ No ☒

Type of perforator used.....

SIZE of perforations ..... in. by ..... in.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒

Manufacturer's Name.....  
Type..... Model No.....  
Diam. .... Slot size ..... from ..... ft. to ..... ft.  
Diam. .... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.  
Material used in seal Bentonite  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ HP

(8) WATER LEVELS: Land-surface elevation \_\_\_\_\_ ft.  
above mean sea level. \_\_\_\_\_ ft.  
Static level \_\_\_\_\_ 25 \_\_\_\_\_ ft. below top of well Date 3/1/35  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_  
(Cap. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....

Yield: gal./min. with ft. drawdown after hrs.

10	10	10	10
10	10	10	10

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test \_\_\_\_\_  
 Bailor test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
 Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
 Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

**Formation:** Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Gravel & soil	0	10
Hard gravel	10	35
Gravel & clay	35	50
Water	50	

Work started 8/1/85 1985 Completed 8/27/85 1985

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Vernon L. Rank  
(Person, firm, or corporation) (Type or print)  
Address 5505 Ahtanum Rd. Yakima, Wa. 98903

[Signed] Vernon L. Bank  
(Well Driller)  
0854 7/30/85  
License No. \_\_\_\_\_ Date \_\_\_\_\_, 19\_\_



(1) OWNER: Name: (b) (6) Address: (b) (6) Rock Island 9

LOCATION OF WELL: County Douglas - NE 1/4 NW 1/4 Sec 25 T 22 N., R. 21 W. N.  
Bearing and distance from section or subdivision corner (b) (6) 800 ft South from NW corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well  
(if more than one)....

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>
Deepened	<input type="checkbox"/>	Cable	<input checked="" type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	Rotary	<input type="checkbox"/>	Jettied	<input type="checkbox"/>

(5) DIMENSIONS: Diameter of well 6 inches.  
Drilled 54 ft. Depth of completed well 55 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 54 ft.  
Threaded ☐ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Welded ☒ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☐ No ☒

Type of perforator used \_\_\_\_\_  
 SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....  
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.  
Material used in seal Bentonite  
Did any strata contain unusable water? Yes ☒ No ☐  
Type of water? \_\_\_\_\_ Depth of strata 14'  
Method of sealing strata off N/A

(7) PUMP: Manufacturer's Name N/A  
Type: HP

(8) WATER LEVELS: Land-surface elevation above mean sea level... 660 ft.  
 Static level 40 ft. below top of well Date 8-20-33  
 Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
 Artesian water is controlled by \_\_\_\_\_ (Cap. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....

Yield: gal./min. with ft. drawdown after hrs.

..	..	..	..
..	..	..	..

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
0	10.0	0	10.0	0	10.0
1	9.5	1	9.5	1	9.5
2	9.0	2	9.0	2	9.0
3	8.5	3	8.5	3	8.5
4	8.0	4	8.0	4	8.0
5	7.5	5	7.5	5	7.5
6	7.0	6	7.0	6	7.0
7	6.5	7	6.5	7	6.5
8	6.0	8	6.0	8	6.0
9	5.5	9	5.5	9	5.5
10	5.0	10	5.0	10	5.0
11	4.5	11	4.5	11	4.5
12	4.0	12	4.0	12	4.0
13	3.5	13	3.5	13	3.5
14	3.0	14	3.0	14	3.0
15	2.5	15	2.5	15	2.5
16	2.0	16	2.0	16	2.0
17	1.5	17	1.5	17	1.5
18	1.0	18	1.0	18	1.0
19	0.5	19	0.5	19	0.5
20	0.0	20	0.0	20	0.0

[illegible]

(10) WELL LOG:

**Formation:** Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil	0	3
Rock 3" To 8" dia.		
Some Clay Brown	3	35
course sand &		
Rock	35	54

Work started 8-14 1983 Completed 8-20 1983

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report true to the best of my knowledge and belief.

NAME 5B<sup>s</sup> Drilling  
(Person, firm, or corporation) (Type or print)

Address 342 NW 27<sup>th</sup> St East Warr, Wash. 98

[Signed] Richard C. Bergquist  
(Well Driller)

License No. 0780 Date 9-15, 1988

SR 12-5-83



(1) OWNER: Name (b) (6)Address Rock Island(2) LOCATION OF WELL: County Douglas - SW 1/4 NE 1/4 Sec 25 T 22 N R 21 E W.M.  
Bearing and distance from section or subdivision corner 6(3) PROPOSED USE: Domestic ☐ Industrial ☒ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐(4) TYPE OF WORK: Owner's number of well #3  
(if more than one).....  
New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☒ Driven ☐  
Reconditioned ☐ Rotary ☐ Jetted ☐(5) DIMENSIONS: Diameter of well 20 inches.  
Drilled 106 ft. Depth of completed well 105.6 ft.

## (6) CONSTRUCTION DETAILS:

Casing installed: 20" Diam. from +2 ft. to 62 ft.  
Threaded ☐ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Welded ☒ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.Perforations: Yes ☐ No ☒Type of perforator used \_\_\_\_\_  
SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.Screens: Yes ☒ No ☐Manufacturer's Name UPP Johnson  
Type 5TH LBS Model No. 304  
Diam. 1.8" Slot size 100 from 105 ft. to 85 ft.  
Diam. 1.8" Slot size 50 from 85 ft. to 65 ft.Gravel packed: Yes ☐ No ☒ Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.Surface seal: Yes ☒ No ☐ To what depth? 21 ft.  
Material used in seal Cement Grout  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_(7) PUMP: Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ HP(8) WATER LEVELS: Land-surface elevation \_\_\_\_\_ ft.  
above mean sea level. \_\_\_\_\_ ft.  
Static level 30.7 ft. below top of well Date 2-3-81  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom? \_\_\_\_\_

Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

" To be done by others "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test \_\_\_\_\_

Pallier test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_

Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes ☐ No ☐

## (10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Dirty SAND-Gravel	0	8
Clay bound SAND-Gravel	8	28
Gravel		
Clay bound SAND-Gravel	28	43
SAND-Gravel (water)	43	56
Tight SAND-Gravel	56	60
SAND-Fine Gravel	60	105
Bedrock	105	106

FEB 24 1981

Work started \_\_\_\_\_ 19\_\_\_\_ Completed \_\_\_\_\_ 19\_\_\_\_

## WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Armstrong Drilling Inc  
(Person, firm, or corporation) (Type or print)Address 10715 66 Ave EAST 144 90[Signed] John E. Armstrong  
(Well Driller)License No. 0012 Date 2-6-1981



# WATER WELL REPORT

STATE OF WASHINGTON

Application No. 64-23414

Permit No. 64-23414

(1) OWNER: Name (b) (6)

Address Box 52, Route 1, Bnd - 16 mi - 98850

(2) LOCATION OF WELL: County Duglas

S. 11 1/4 N. 11 E. Sec 25 T. 2 N. R. 2 E W. 3

Bearing and distance from section or subdivision corner:

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one):  
New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☒ Driven ☐  
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8" inches  
Drilled 61 ft. Depth of completed well 61 ft.

## (6) CONSTRUCTION DETAILS:

Casing installed: 61" Diam. from -1 ft. to 61 ft.  
Threaded ☐ " Diam. from ft. to ft.  
Welded ☒ " Diam. from ft. to ft.

Perforations: Yes ☐ No ☒

Type of perforator used:  
SIZE of perforations in. by in.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.

Screens: Yes ☐ No ☒

Manufacturer's Name:  
Type Model No.  
Diam. Slot size from ft. to ft.  
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☒ Size of gravel:

Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.

Material used in seal: Bentonite  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? Depth of strata:  
Method of sealing strata off:

## (7) PUMP: Manufacturer's Name:

Type: HP

## (8) WATER LEVELS:

Land-surface elevation above mean sea level: 875 ft.

Static level 26 ft. below top of well Date 7/22/77

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (Cap. valve, etc.)

## (9) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time Water Level Time Water Level Time Water Level

Date of test

Ballor test: 50 gal./min. with 0 ft. drawdown after 1 hrs.

Artesian flow: s.p.m. Date

Temperature of water Was a chemical analysis made? Yes ☐ No ☒

## (10) WELL LOG:

Formation: Describe by color, character, size of material and structure, or show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Sand & Boulders	0	20'
Sand	20'	25'
Sand & Boulders	25'	31'
Sand - Silt & Gravel	31'	45'
River Sand & Silt & Gravel	45'	55'
River Sand & Gravel	55'	61'

RECEIVED

DEC 4 - 1977

DEPARTMENT OF ECOLOGY  
WATER RESOURCES DIVISION

Work started 7/12/77 Completed 9/22/77

## WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Class Well Drilling  
(Person, firm, or corporation) (Type or print)

Address P.O. Box 125 Quincy, WA 98850

[Signed] Henry L. Plack  
(Well Driller)

License No. 721 Date 9/22/77



(1). OWNER: Name..... (b) (6)

Address RT 5 Box 5236 Watkins, W. 98207

(2) LOCATION OF WELL: County Douglas - SW 1/4 SW 1/4 Sec. 25 T.22 N., R.21 W.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(10) WELL LOG:

**Formation:** Describe by color, character, size of material and structure, or show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation

(4) TYPE OF WORK: Owner's number of well  
(if more than one).....

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>
Deepened	<input type="checkbox"/>	Cable	<input checked="" type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	Rotary	<input type="checkbox"/>	Jetted	<input type="checkbox"/>

(5) DIMENSIONS: Diameter of well ..... 6 ..... inches.  
 Drilled ..... 166 ..... ft. Depth of completed well ..... 106 ..... ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from -1 ft. to 98 ft.  
Threaded ☐ " Diam. from " ft. to " ft.  
Welded ☒ " Diam. from " ft. to " ft.

Perforations: Yes ☐ No ☒

Type of perforator used.....

SIZE of perforations ..... in. by ..... in.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

Screens: Yes ☒ No ☐

Manufacturer's Name Hydrophobic Ltd. Inc.  
Type Plastic Model No. \_\_\_\_\_  
Diam. 5" Slot size 2.13 from 100 ft. to 100 ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....  
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.  
Material used in seal Bed Tar  
Did any strata contain unusable water? Yes ☐ No ☐  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name.....  
Type: ..... HP

(8) WATER LEVELS: Land-surface elevation above mean sea level 5 ft.  
 Static level 2 ft. below top of well Date 5/2/77  
 Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
 Artesian water is controlled by \_\_\_\_\_ (Cap. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☒ No ☐ If yes, by whom? .....

Yield: gal./min. with ft. drawdown after hrs.

20	20	20	20
20	20	20	20

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
------	-------------	------	-------------	------	-------------

.....

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104

Date of test 1-12-37

Bailer test... 1 C gal./min. with... 2 ft. drawdown after... 1 hrs.  
Artesian flow... g.p.m. Date...

Temperature of water..... Was a chemical analysis made? Yes ☐ No ☒

MATERIAL	FROM	TO
Top Soil	0'	3'
Sand & Boulders	3'	24'
Sand - Silt - Gravel	24'	73'
Sand & Silt	73'	98'
Sand	98'	106'

RECEIVED

FILED 1970

DEPARTMENT OF ECOLOGY  
SPOKANE REGIONAL OFFICE

Work started 6/14 1977 Completed 5/30 1977

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report true to the best of my knowledge and belief.

NAME Close Well Drilling  
(Person, firm, or corporation) (Type or print)

Address. PO Box 125 Quincy, 98844  
WA

[Signed] Henry L. Jones  
(Well Driller)

License No. 701 Date 5/26 1971



(b) (6)

(1) OWNER: Name... Address Box 217 - Rock Island, Ill.  
 (2) LOCATION OF WELL: County Douglas (284-8480) - SW 1/4 Sec 25 T22 N., R. 21 W.

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☒ Other ☐

(4) TYPE OF WORK: Owner's number of well  
(if more than one) ...

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>
Deepened	<input type="checkbox"/>	Cable	<input checked="" type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	Rotary	<input type="checkbox"/>	Jetted	<input type="checkbox"/>

(5) DIMENSIONS: Diameter of well ..... 6 ..... inches.  
 Drilled ..... 80 ..... ft. Depth of completed well ..... 80 ..... ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from -6 ft. to 89 ft.  
Threaded ☐ " Diam. from " ft. to " ft.  
Welded ☒ " Diam. from " ft. to " ft.

Perforations: Yes ☐ No ☒

Type of perforator used.....

SIZE of perforations ..... in. by ..... in.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒

Manufacturer's Name.....  
Type..... Model No.....  
Diam. .... Slot size ..... from ..... ft. to ..... ft.  
Diam. .... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☐ No ☒ To what depth? \_\_\_\_\_ ft.  
Material used in seal \_\_\_\_\_  
Did any strata contain unusable water? Yes ☐ No ☐  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ HP

(8) WATER LEVELS: Land-surface elevation \_\_\_\_\_ ft.  
above mean sea level... \_\_\_\_\_ ft.  
Static level \_\_\_\_\_ 30 ft. below top of well Date 2/3/76  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....

Yield:	gal./min. with	ft. drawdown after	hrs.
"	"	"	"
"	"	"	"

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
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100-443888-100

Blank test - 1 gal/min. with 1 ft. drawdown after 1 hrs

Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_

Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation

MATERIAL	FROM	TO
Deep Soil	0	2'
Sand & Boulders & Gravel	2'	39'
Sand & Gravel	39'	50'
Sand	50'	78'
Rock	78'	80'

Well is capped at present  
awaiting owners decision  
on use for further drilling  
may be used for irrigation  
at a 3 family domestic.  
Info per telecom 5/19/77 JH

RECEIVED

MAY 5 1977

DEPARTMENT OF ECOLOGY  
CENTRAL RECORDING OFFICE

Work started 120 1977 Completed 2/3 1978

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Close Well Drilling  
(Person, firm, or corporation) (Type or print)

Address. RR Box 125 Quincy, Ill.

[Signed] James H. Hill  
(Well Driller)

License No. 701 Date 2-13, 197

100



(1) OWNER: Name.. (b) (6)

Address ... (b) (6)

Rock Island

(2) LOCATION OF WELL: County Douglas - SW 1/4 SW 1/4 Sec. 25 T22 N., R21 W.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

(4) TYPE OF WORK: Owner's number of well  
(if more than one).....

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>
Deepened	<input type="checkbox"/>	Cable	<input type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	Rotary	<input type="checkbox"/>	Jetted	<input type="checkbox"/>

(5) DIMENSIONS: Diameter of well ..... 4" ..... inches.  
 Drilled 93.6' ..... ft. Depth of completed well 93.4' ..... ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 1 ft. to 93 ft.  
Threaded ☐ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Welded ☒ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☐ No ☐

Type of perforator used.....

SIZE of perforations ..... in. by ..... in.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

Screens: Yes ☒ No ☐

Manufacturer's Name.....

Type..... Model No.....

Diam.  $5\frac{1}{2}$  Slot size  $2.20$  from  $75$  ft. to  $80$  ft.

Diam. .... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....  
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 18' ft.  
Material used in seal BENTONITE  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name.....  
Type: ..... HP

(8) WATER LEVELS: Land-surface elevation .....ft.  
 Static level 20 .....ft. below top of well Date.....  
 Artesian pressure .....lbs. per square inch Date.....  
 Artesian water is controlled by.....  
 (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....

Yield:	gal./min. with	ft. drawdown after	hrs.
"	"	"	"
"	"	"	"

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
------	-------------	------	-------------	------	-------------

TIME	WATER	LEVEL	TIME	WATER	LEVEL	TIME	WATER	LEVEL
11:00	1.0	1.0	11:00	1.0	1.0	11:00	1.0	1.0
11:15	1.0	1.0	11:15	1.0	1.0	11:15	1.0	1.0
11:30	1.0	1.0	11:30	1.0	1.0	11:30	1.0	1.0
11:45	1.0	1.0	11:45	1.0	1.0	11:45	1.0	1.0
12:00	1.0	1.0	12:00	1.0	1.0	12:00	1.0	1.0
12:15	1.0	1.0	12:15	1.0	1.0	12:15	1.0	1.0
12:30	1.0	1.0	12:30	1.0	1.0	12:30	1.0	1.0
12:45	1.0	1.0	12:45	1.0	1.0	12:45	1.0	1.0
13:00	1.0	1.0	13:00	1.0	1.0	13:00	1.0	1.0
13:15	1.0	1.0	13:15	1.0	1.0	13:15	1.0	1.0
13:30	1.0	1.0	13:30	1.0	1.0	13:30	1.0	1.0
13:45	1.0	1.0	13:45	1.0	1.0	13:45	1.0	1.0
14:00	1.0	1.0	14:00	1.0	1.0	14:00	1.0	1.0
14:15	1.0	1.0	14:15	1.0	1.0	14:15	1.0	1.0
14:30	1.0	1.0	14:30	1.0	1.0	14:30	1.0	1.0
14:45	1.0	1.0	14:45	1.0	1.0	14:45	1.0	1.0
15:00	1.0	1.0	15:00	1.0	1.0	15:00	1.0	1.0
15:15	1.0	1.0	15:15	1.0	1.0	15:15	1.0	1.0
15:30	1.0	1.0	15:30	1.0	1.0	15:30	1.0	1.0
15:45	1.0	1.0	15:45	1.0	1.0	15:45	1.0	1.0
16:00	1.0	1.0	16:00	1.0	1.0	16:00	1.0	1.0
16:15	1.0	1.0	16:15	1.0	1.0	16:15	1.0	1.0
16:30	1.0	1.0	16:30	1.0	1.0	16:30	1.0	1.0
16:45	1.0	1.0	16:45	1.0	1.0	16:45	1.0	1.0
17:00	1.0	1.0	17:00	1.0	1.0	17:00	1.0	1.0
17:15	1.0	1.0	17:15	1.0	1.0	17:15	1.0	1.0
17:30	1.0	1.0	17:30	1.0	1.0	17:30	1.0	1.0
17:45	1.0	1.0	17:45	1.0	1.0	17:45	1.0	1.0
18:00	1.0	1.0	18:00	1.0	1.0	18:00	1.0	1.0
18:15	1.0	1.0	18:15	1.0	1.0	18:15	1.0	1.0
18:30	1.0	1.0	18:30	1.0	1.0	18:30	1.0	1.0
18:45	1.0	1.0	18:45	1.0	1.0	18:45	1.0	1.0
19:00	1.0	1.0	19:00	1.0	1.0	19:00	1.0	1.0
19:15	1.0	1.0	19:15	1.0	1.0	19:15	1.0	1.0
19:30	1.0	1.0	19:30	1.0	1.0	19:30	1.0	1.0
19:45	1.0	1.0	19:45	1.0	1.0	19:45	1.0	1.0
20:00	1.0	1.0	20:00	1.0	1.0	20:00	1.0	1.0
20:15	1.0	1.0	20:15	1.0	1.0	20:15	1.0	1.0
20:30	1.0	1.0	20:30	1.0	1.0	20:30	1.0	1.0
20:45	1.0	1.0	20:45	1.0	1.0	20:45	1.0	1.0
21:00	1.0	1.0	21:00	1.0	1.0	21:00	1.0	1.0
21:15	1.0	1.0	21:15	1.0	1.0	21:15	1.0	1.0
21:30	1.0	1.0	21:30	1.0	1.0			

.....

.....



101-5

Date of test ..... 11/8/77 .....

Bailer test 1.0 gal/min with 10 ft drawdown after 1 hr

11/8/37

Artesian flow ..... g.p.m. Date, 11/10/11

Temperature of water..... Was a chemical analysis made? Yes ☐ No ☐

RECEIVED

Aug 1 1972

DEPARTMENT OF ECOLOGY  
SPokane REGIONAL OFFICE

Work started 10/21 1977 Completed 11-12 1977

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report :  
true to the best of my knowledge and belief.

NAME CLOSE WELL DRILLING  
(Person, firm, or corporation) (Type or print)

Address P.O. Box 125 Quincy, Mass.

[Signed] Henry L. Chase  
(Well Driller)

License No. 101 - Date 11/8, 197





(USE ADDITIONAL SHEETS IF NECESSARY)



(1) OWNER: Name (b) (6)

Address Rt. 5 Box 5205 J. E. Wenatchee

2) LOCATION OF WELL: County Douglas

Tract 28 - 1/4 33 1/4 Sec 26 - T. 22 N. R. 21 W.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well  
(if more than one).....

New well <input type="checkbox"/>	Method: Dug <input type="checkbox"/>	Bored <input type="checkbox"/>
Deepened <input type="checkbox"/>	Cable <input checked="" type="checkbox"/>	Driven <input type="checkbox"/>
Reconditioned <input type="checkbox"/>	Rotary <input type="checkbox"/>	Jetted <input type="checkbox"/>

(5) DIMENSIONS: Diameter of well ... 6 ... inches.  
 Drilled ... 39 ... ft. Depth of completed well ... ft.

(6) CONSTRUCTION DETAILS:

Casing installed: ..... " Diam. from ..... ft. to ..... ft.  
 Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.  
 Welded ☐ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒

Type of perforator used.....

SIZE of perforations ..... in. by ..... in.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒

Manufacturer's Name.....

Type..... Model No.....

Diam. .... Slot size ..... from ..... ft. to ..... ft.

Diam. .... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....  
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☐ No ☐ To what depth? 18 ft.  
Material used in seal: puddling clay  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off: \_\_\_\_\_

(7) PUMP: Manufacturer's Name.....  
Type: ..... HP .....

(8) WATER LEVELS: Land-surface elevation  
above mean sea level.....ft.  
Static level 18.....ft. below top of well Date.....  
Artesian pressure .....lbs. per square inch Date.....  
Artesian water is controlled by.....  
(Cap. valve. etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☐ If yes, by whom? .....

Yield:	gal./min. with	ft. drawdown after	hrs
"	"	"	"
"	"	"	"
"	"	"	"

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

[illegible]

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, a show thickness of aquifers and the kind and nature of the material in a stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
sand & gravel	0	5
boulders w/sand & gravel	5	8
sand & silt	8	19
sand	19	29
gravel & sand	29	34
gravel	34	39

Work started \_\_\_\_\_ 19\_\_\_\_ Completed \_\_\_\_\_ 19\_\_\_\_

## WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Glessner Well Drilling  
(Person, firm, or corporation) (Type or print)

Address 142 S. Texas, E. Wenatchee, Wa.

[Signed] Wesley Glesner  
(Well Driller)

License No. 0154 Date 4-17-79, 19...



(1)- OWNER: Name (b) (6) Address (b) (6)

(2) LOCATION OF WELL: County Douglas - 1/4 Sec. 7 T. 26 N., R. 21E W.M.  
Bearing and distance from section or subdivision corner 1/2 East 1/2 of lot 13 East Wentworth and Compton

3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well  
(if more than one)....

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>
Deepened	<input type="checkbox"/>	Cable	<input type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	Rotary	<input type="checkbox"/>	Jetted	<input type="checkbox"/>

(5) DIMENSIONS: Diameter of well ..... 6 ..... inches.  
 Drilled 40 ft. Depth of completed well ..... 82 ..... ft.

**(6) CONSTRUCTION DETAILS:**

Casing installed: 6" Diam. from 0 ft. to 82 ft.  
Threaded ☐ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Welded ☒ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☒ No ☐

Type of perforator used \_\_\_\_\_  
 SIZE of perforations 14 in. by 2 in.  
 \_\_\_\_\_ perforations from 67 ft. to 72 ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name.....

Type..... Model No.....

Diam. .... Slot size ..... from ..... ft. to ..... ft.

Diam. .... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.  
Material used in seal puddling clay  
Did any strata contain unusable water? Yes ☐ No ☐  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name.....  
Type:..... HP

(8) WATER LEVELS: Land-surface elevation above mean sea level. 680  
 Static level 64 ft. below top of well Date 7/2/75  
 Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
 Artesian water is controlled by \_\_\_\_\_ (Cap. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, by whom? .....			
Yield:	gal./min. with	ft. drawdown after	hrs.
"	"	"	"
"	"	"	"

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) :

Time	Water Level	Time	Water Level	Time	Water Level
------	-------------	------	-------------	------	-------------

Date of test \_\_\_\_\_

Well test: 20 gal/min. with 1 ft. drawdown after        hrs.  
 Testian flow        g.p.m. Date       

Temperature of water..... Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

**Formation:** Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

TOP 5 MATERIAL	FROM	TO
Top Soil	0	2
large gravel	2	10
med gravel	10	18
gravel med - small	18	23
Clay (green)	23	90

RECEIVED

201 24 1975

DEPARTMENT OF ECOLOGY  
CENTRAL REGIONAL OFFICE

RECEIVED  
SEP 21 1981

Work started \_\_\_\_\_ 19\_\_\_\_ Completed 7/2 1983

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Glossner Well Drilling  
(Person, firm, or corporation) (Type or print)

Address Box 302 Mansfield Wn

[Signed] Wesley Glessner  
(Well Driller)

License No. 0154 Date 7/9, 1972



License No. 0154 Date 8/1, 1947







# WATER WELL REPORT

STATE OF WASHINGTON

2032  
Start Card No. 31660

Water Right Permit No. \_\_\_\_\_

OWNER: Name (b) (6)

Address 5080 St. Hwy 28 E. Wenatchee, Wa

(2) LOCATION OF WELL: County DOUGLAS

NW Sec 26 T. 22 N. R. 21 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address):

SAME

(3) PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal  
☐ Irrigation ☐ Test Well ☐ Other  
☐ DeWater

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

(4) TYPE OF WORK: Owner's number of well (if more than one)

Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☐ Driven ☐  
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.  
Drilled 29 feet. Depth of completed well 28 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 ft. Diam. from + 1 1/2 ft. to 28 ft.  
Welded ☒ Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Liner installed ☐ Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Threaded ☐ Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☐ No ☒

Type of perforator used \_\_\_\_\_

SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name \_\_\_\_\_

Type \_\_\_\_\_ Model No. \_\_\_\_\_

Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel \_\_\_\_\_

Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.

Material used in seal BENTONITE

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_

Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_

Type: \_\_\_\_\_ H.P. \_\_\_\_\_

(8) WATER LEVELS: Land-surface elevation above mean sea level \_\_\_\_\_ ft.

Static level 4 ft. below top of well Date 7-12-89

Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_

Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? \_\_\_\_\_

Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

" " " "

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time Water Level Time Water Level Time Water Level

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

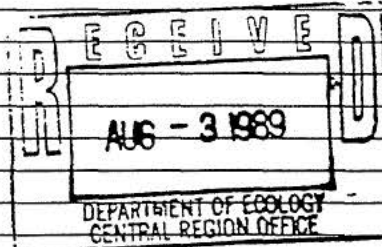
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Work started 7-12, 19. Completed 7-12, 1989

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Tumwater Drilling Inc.  
(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address LEAVENWORTH, WASH.

(Signed) [Signature] License No. 1249

Contractor's Registration No. TUMWAD2 13306 Date 7-17, 1989

(USE ADDITIONAL SHEETS IF NECESSARY)



# WATER WELL REPORT

STATE OF WASHINGTON

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

(1) OWNER: Name \_\_\_\_\_ (b) (6)

Address Professional Center Bldg - 37 S. Park Ave

(2) LOCATION OF WELL: County Chelan NE 1/4 NW 1/4 Sec 26 T. 22 N., R. 21 E. W. M. (

Spring and distance from section or subdivision corner 320 ft SW of NW corner of E 11 acres of Lot 6

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐  
Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well \_\_\_\_\_  
(if more than one) \_\_\_\_\_  
New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☒ Driven ☐  
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 10 inches.  
Drilled 36 ft. Depth of completed well 36 ft.

## (6) CONSTRUCTION DETAILS:

Casing installed: 10 " Diam. from 0 ft. to 36 ft.  
Threaded ☐ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Welded ☒ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☐ No ☒

Type of perforator used \_\_\_\_\_  
SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes ☐ No ☒

Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☐ No ☒ To what depth? \_\_\_\_\_ ft.  
Material used in seal \_\_\_\_\_  
Did any strata contain unusable water? Yes ☐ No ☐  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ H.P.

(8) WATER LEVELS: Land-surface elevation \_\_\_\_\_ ft.  
above mean sea level \_\_\_\_\_ ft.  
Static level 12 ft. below top of well Date 11/5/76  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made? Yes ☒ No ☐ If yes, by whom? Davidson Pump  
Yield: gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
"150" "10' "2 hrs "  
"150" "10' "6 hrs "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
<u>Recovery</u>	<u>1.0</u>	<u>Full</u>	<u>-</u>	<u>1</u>	<u>minute</u>

Date of test 11-5-76  
Bailer test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes ☐ No ☐

## (10) WELL LOG: East waterline lane to plot

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
<u>Sand</u>	<u>0</u>	<u>10'</u>
<u>Sand &amp; Rock</u>	<u>10'</u>	<u>23'</u>
<u>Coarse Sand &amp; Gravel</u>	<u>23'</u>	<u>36'</u>

RECEIVED

NOV 10 1976

DEPARTMENT OF ECOLOGY  
SPOKANE REGIONAL OFFICE

Work started 11/1 1976 Completed 11/5 1976

## WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Close Well Drilling  
(Person, firm, or corporation) (Type or print)

Address P.O. Box 125 Quincy, Wn

[Signed] Tony J. Pland  
(Well Driller)

License No. 721 Date 11/6 1976

(USE ADDITIONAL SHEETS IF NECESSARY)



Permit No.

**Address**

License No. 0780 Date 11-14 1983

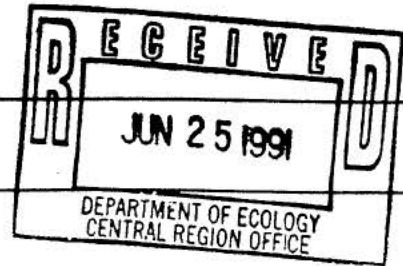








WORKSHEET 1  
SUMMARY SCORE SHEET



Site Name: SILICON METALTECH LAGOON SITE

Site Location: (City, County, or Section/Township/Range)

Rock Island, WA  
Douglas County

Site Description: (Include management areas, compounds of concern, and quantities)

Silicon Metaltech is an active silicon smelting plant. Eight metal fume waste lagoons are present at the facility. Three are active and five are inactive. One of the inactive lagoons is lined with plastic. The facility generates 40 tons of fume every 16 hours. A water slurry is pumped to the lagoons for settling in series. Lagoons contain various metals, although not RCRA hazardous based on TCLP.

Quantity: 40 tons/day x 260 days/yr x at least 3 yrs = 31,200 tons

Special Considerations: (Include limitations in site file data, data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site)

Air route scored using waste pile definition to accommodate potential release of particulates from dried out impoundments.

ROUTE SCORES:

Ground Water/Human:

26.7  
~~22.5~~

Overall Rank:

4

Surface Water/Human:

7.9

Air/Human:

25.7 ✓

Air/Environmental:

0.0

Surface Water/Environmental:

25.3 ✓



WORKSHEET 2  
ROUTE DOCUMENTATION

SURFACE WATER ROUTE

List substances to be considered for scoring.

Source: \_\_\_\_\_

Lead, arsenic, cadmium  
chromium, mercury

Explain basis for choice of substances to be used in scoring.

List management units to be considered in scoring:

Source: \_\_\_\_\_

Surface impoundments

Explain basis for choice of unit used in scoring.

AIR ROUTE

List substances to be considered for scoring.

Source: \_\_\_\_\_

Lead, arsenic, cadmium, chromium,  
mercury

Explain basis for choice of substances to be used in scoring.

List management units to be considered in scoring:

Source: \_\_\_\_\_

Surface impoundments / scored as waste piles for  
particulate release  
potential

Explain basis for choice of unit used in scoring.



WORKSHEET 2 (CONTINUED)  
ROUTE DOCUMENTATION

GROUND WATER ROUTE

List substances to be considered for scoring.

Source: \_\_\_\_\_

*same as SW*

Explain basis for choice of substances to be used in scoring.

List management units to be considered in scoring:

Source: \_\_\_\_\_

*Impoundments*

Explain basis for choice of unit used in scoring.



**WORKSHEET 3**  
**SUBSTANCE CHARACTERISTIC WORKSHEET**  
**FOR MULTIPLE UNIT/SUBSTANCE SITES**

	Combination 1	Combination 2	Combination 3
Unit: Substance: <u>AIR ROUTE</u> Human Toxicity/Mobility Value: Environmental Toxicity/Mobility Value: Containment Value:			
Air Human Subscore: Air Environmental Score:			
<u>SURFACE WATER ROUTE</u> Human Toxicity Value: Environmental Toxicity Value: Containment Value:			
Surface Water Human Subscore: Surface Water Environmental Subscore:			
<u>GROUND WATER ROUTE</u> Human Toxicity/Mobility Value: Containment Value:			
Ground Water Subscore:			





**WORKSHEET 4  
SURFACE WATER ROUTE**

**1.0 SUBSTANCE CHARACTERISTICS**

**1.1 Human Toxicity**

Substance	Drinking Water Std.		Chronic Toxicity		Acute Toxicity		Carcinogenicity		
	(µg/l)	Value	mg/kg/day	Value	mg/kg-bw	Value	WOE	Potency Factor	Value
1. Mercury		8		0		5			0
2. Lead		8		0		0			0
3. Chromium		6		0		1			0
4. Arsenic		0		0		5			0
5. Cadmium		8		0		5			0

Source: \_\_\_\_\_

Highest Value: 8

+2 Bonus Points?: 2

Value: 10

**1.2 Environmental Toxicity**

Substance	Acute Criteria (µg/L)	Non-human mammalian acute toxicity (mg/kg)	Value
1. H <sub>7</sub>			8
2. Pb			6
3. Cr			2
4. As			4
5. Cd			8

Source: 1 Value: 8

**1.3 Substance Quantity**

Explain basis: 31,200 tons

Source: 1 Value: 9

**2.0 MIGRATION POTENTIAL**

2.1 Containment Dike condition apparently sound  
Explain basis: manually maintained free board

Source: 1 Value: 4

2.2 Surface Soil Permeability: gravel

Source: 1 Value: 1

2.3 Total Annual Precipitation: 8.8 ins

Source: 1 Value: 1

2.4 Maximum 2-Year 24-Hr Precipitation: 1.0

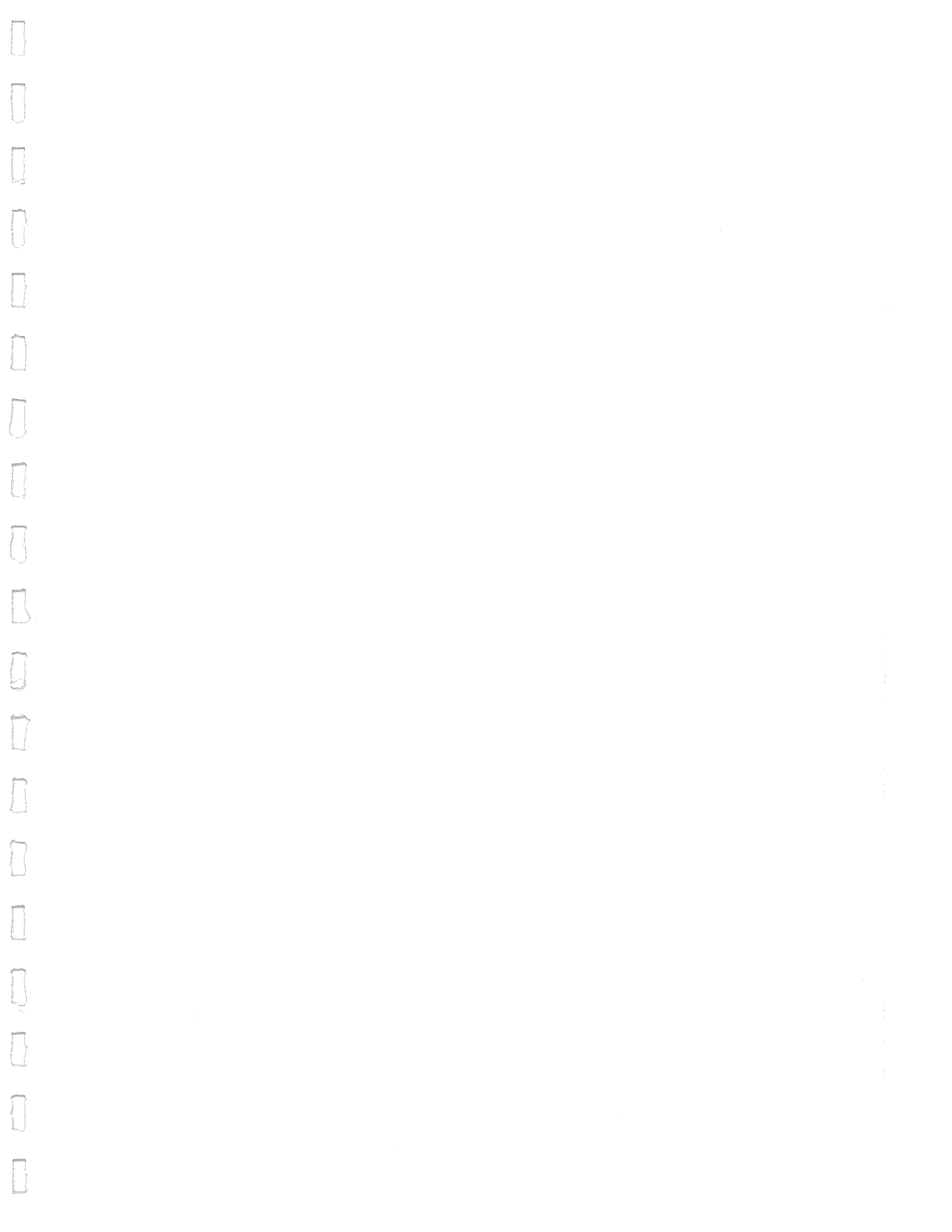
Source: 1 Value: 1

2.5 Flood Plain: 500 yr.

Source: 1 Value: 1

2.6 Terrain Slope: 2 8 90

Source: 1 Value: 2



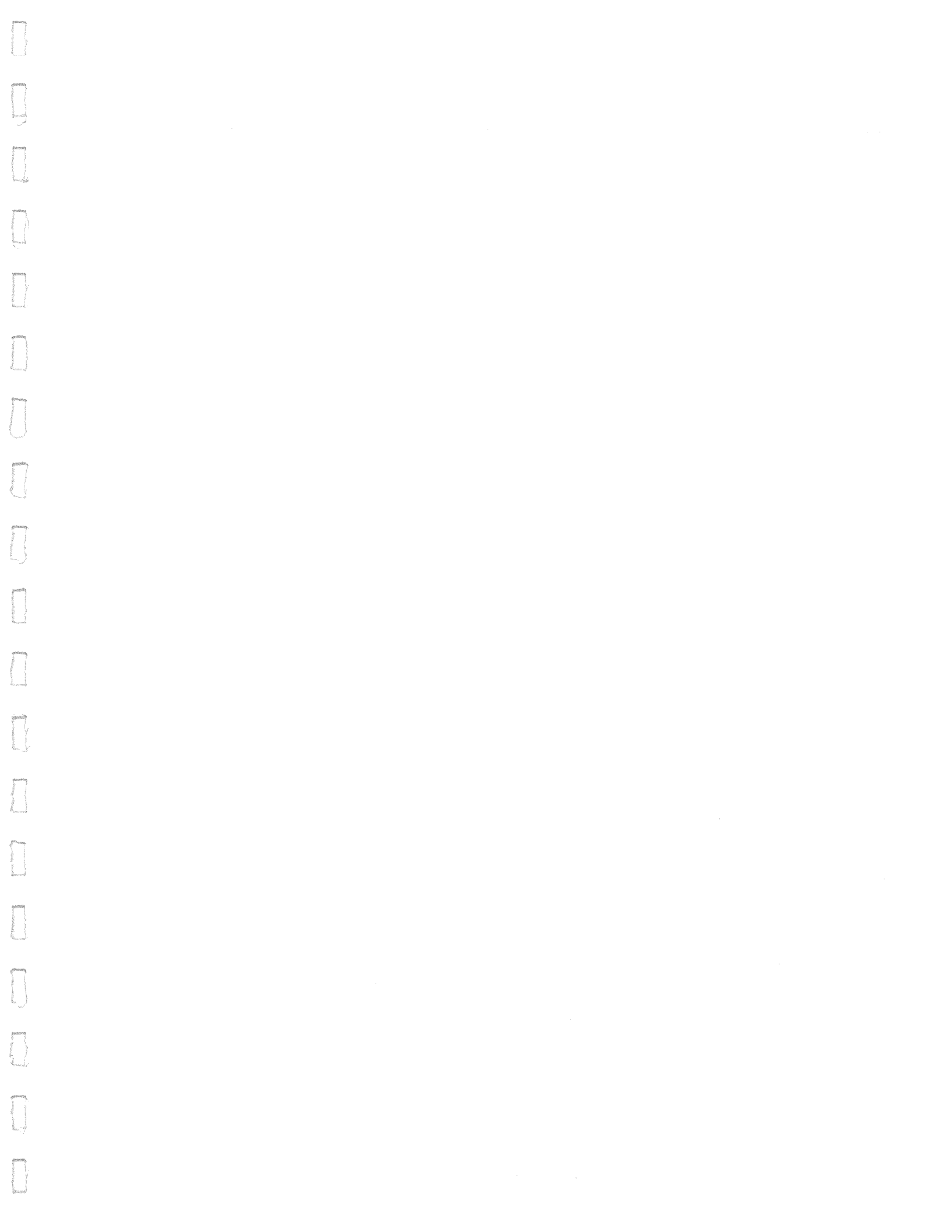
WORKSHEET 4 (CONTINUED)  
SURFACE WATER ROUTE

3.0 TARGETS

- 3.1 Distance to Surface Water: 500 ft Source: 1 Value: 10
- 3.2 Population Served within 2 miles: 0 Source: 1 Value: 0
- 3.3 Area Irrigated by Sources within 2 miles: 141 0.75 Source: 1 Value: 9
- 3.4 Distance to Fishery Resource: 500 ft Columbia R Source: 1 Value: 12
- 3.5 Distance to Sensitive Environment: 500 ft Source: 1 Value: 12
- List: \_\_\_\_\_
- \_\_\_\_\_

4.0 RELEASE

Explain basis: Lagoons out Falls under Source: 1 Value: 0  
NPDES permit - no other  
evidence.



**WORKSHEET 5 (CONTINUED)**  
**AIR ROUTE**

**1.0 SUBSTANCE CHARACTERISTICS**

**1.1** Introduction - please review before scoring

**1.2** Human Toxicity

Substance	Air Std.		Chronic Toxicity		Acute Toxicity		Carcinogenicity		
	$\mu\text{g}/\text{m}^3$	Value	$\text{mg}/\text{kg}/\text{day}$	Value	$\text{mg}/\text{kg}-\text{bw}$	Value	WOE	Potency Factor	Value
1. Hg		0		28		80			0
2. AS		10		0		0			9
3. Cr		10		0		40			8
4. Pb		10		0		0			0
5. Cd		10		100		100			6

Source: \_\_\_\_\_

Highest Value: 10

+2 Bonus Points?: 2

Toxicity Value: 12

**1.3** Mobility

**1.3.1** Gaseous Mobility

Vapor Pressure: \_\_\_\_\_

Source: \_\_\_\_\_

Value: \_\_\_\_\_

**1.3.2** Particulate Mobility

Soil Type: Same dusts scored as fine sand - 3 re Source: \_\_\_\_\_

Erodibility: 220

Climatic Factor: 10-30

Particulate Mobility Potential Value: 4

**1.4** Final Human Health Toxicity/Mobility Matrix:

Value: 24

**1.5** Environmental Toxicity/Mobility

Substance	Non-human mammalian Acute Toxicity	Value	Mobility	Value
1. Hg		80	4	
2. AS		0	4	
3. Cr		100	4	
4. Pb		0	4	
5. Cd		10	4	

Environmental Toxicity Mobility Matrix:

Source: \_\_\_\_\_ Value: 20

**1.6** Substance Quantity: 31,200 tons

Source: 1 Value: 9



WORKSHEET 5  
AIR ROUTE

2.0 MIGRATION POTENTIAL

2.1 Containment: waste pile outdoors + uncovered

Source: 1 Value: 10

3.0 TARGETS

3.1 Nearest Population: <1000 ft

Source: 1 Value: 10

3.2 Nearest Sensitive Environment: Site in industrial

Source: 1 Value: 0

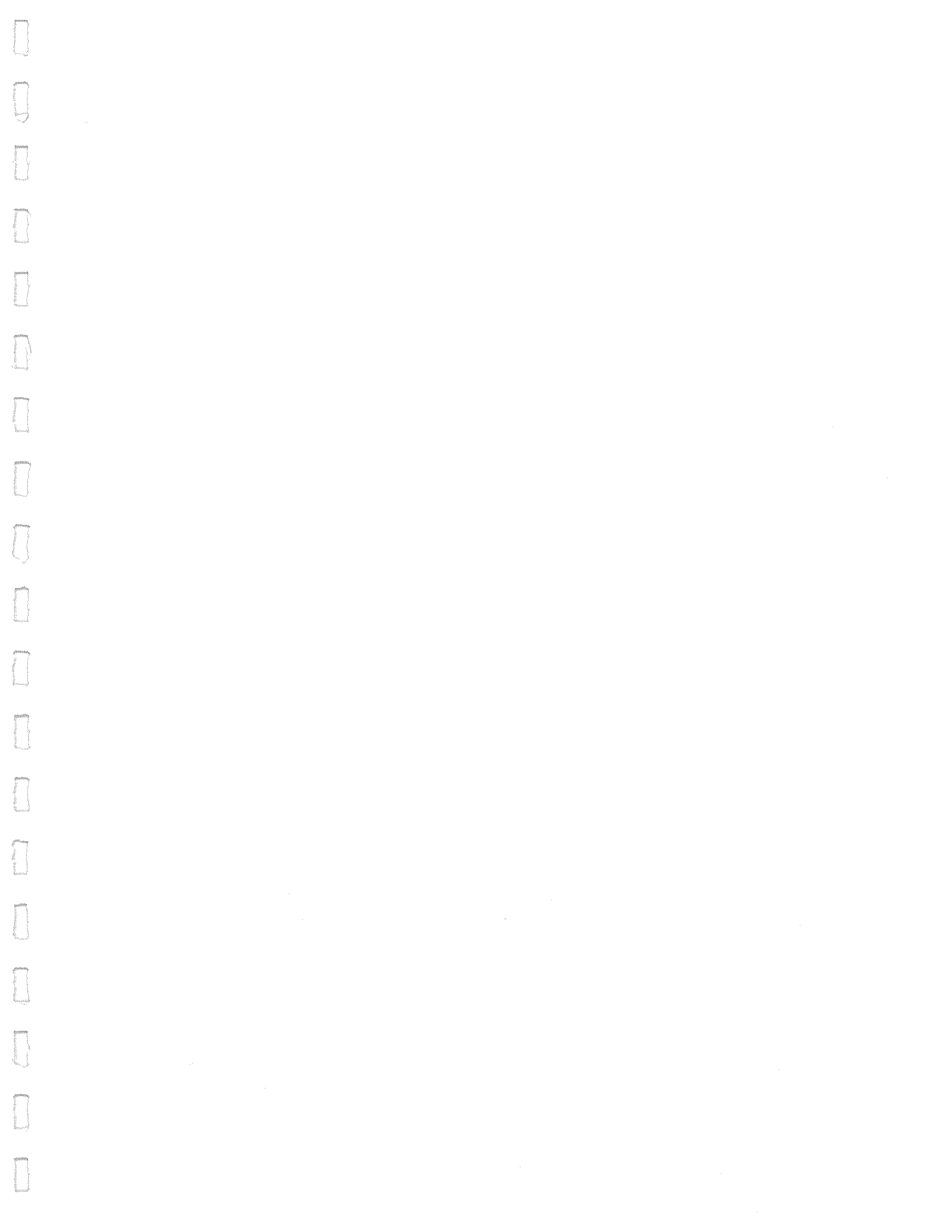
~~Site~~: area, no sensitive environments  
for this route in one mile

3.3 Population within 1/2 mile: 220

Source: 1 Value: 15

4.0 RELEASE: No evidence

Source: 1 Value: 0





**WORKSHEET 6  
GROUND WATER ROUTE**

**1.0 SUBSTANCE CHARACTERISTICS**

**1.1 Human Toxicity**

Substance	Drinking Water Std.		Chronic Toxicity		Acute Toxicity		Carcinogenicity		
	(µg/l)	Value	mg/kg/day	Value	mg/kg-bw	Value	WOE	Potency Factor	Value
1. 2. 3. 4. 5. 6.	<i>See surface water</i>								

Source: \_\_\_\_\_

Highest Value: 8

+2 Bonus Points?: 2

Value: 10

**1.2 Mobility**

Substance: \_\_\_\_\_

*Hg 3  
Pb 2  
Cr 1  
As 3  
Cd 3*

Source: 1 Value: 3

**1.3 Substance Quantity**

Explain basis: 31,200 tons

Source: 1 Value: 9

**2.0 MIGRATION POTENTIAL**

**2.1 Containment**

Explain basis: \_\_\_\_\_

*Lagoons - No liner 3  
Dikes - Apparent Sand 1  
Free board mawad 1  
No evidence of fluid loss 0*

Source: 1 Value: 5

2.2 Net Precipitation: 3.0

Source: 1 Value: 1

2.3 Subsurface Hydraulic Conductivity: 10<sup>-1</sup>

Source: 1 Value: 4

2.4 Vertical Depth to Ground Water: 0 - contaminated

Source: 1 Value: 8

**3.0 TARGETS**

3.1 Ground Water Usage: Public, no other make

Source: 1 Value: 9

3.2 Distance to Nearest Drinking Water Well: <600 Ft

Source: 1 Value: 5

3.3 Population Served with 2 miles: 144 ✓

Source: 1 Value: 12

3.4 Area Irrigated by Wells within 2 miles: 456 0.75 ✓

Source: 1 Value: 16

**4.0 RELEASE**

Explain basis: Analytical evidence

Source: 1 Value: 5



WORKSHEET 7  
SOURCES USED IN SCORING

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



# WASHINGTON RANKING METHOD

## ROUTE SCORES SUMMARY AND RANKING CALCULATION SHEET

Site name: Silicon Metaltech Lagoon Site Region: CRO

City, county: Rock Island, Douglas

This site was ranked on August 12, 1991, based on quintile values from 259 assessed/scored sites.

Route Quintile  
Pathway Score(s) Group number(s)

SW-HH	<u>7.9</u>	<u>2</u>
Air-HH	<u>25.7</u>	<u>4</u>
GW-HH	<u>26.7</u>	<u>1</u>
Sed-HH	<u>-</u>	<u>-</u>
SW-En	<u>25.3</u>	<u>3</u>
Air-En	<u>0</u>	<u>1</u>
Sed-En	<u>-</u>	<u>-</u>

Priority scores:

$$\frac{16 + 4 + 1}{8} = \frac{H^2 + 2M + L}{8} = \frac{21}{8} = 2.625 \approx 3$$

$$\frac{9 + 2}{7} = \frac{H^2 + 2L}{7} = \frac{11}{7} = 1.57 \approx 2$$

Use the matrix presented to the right, along with the two priority scores, to determine the site ranking. N/A refers to where there is no applicable pathway.

Human Health	Environment					
	5	4	3	2	1	N/A
5	1	1	1	1	1	1
4	1	2	2	2	3	4
3	1	2	3	4	4	5
2	2	3	4	4	5	5
1	2	3	4	5	5	5
N/A	3	4	5	5	5	5

DRAFT / FINAL

Matrix ("bin") Ranking: 4, or        No Further Action

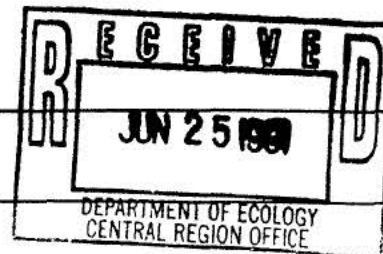
CONFIDENCE LEVEL: The relative position of this site within this bin is:

       almost into the next higher bin.  
X right in the middle, unlikely to ever change.  
       almost into the next lower bin.





WORKSHEET 1  
SUMMARY SCORE SHEET



Site Name: SILILCON METALTECH LAB SITE

Site Location: (City, County, or Section/Township/Range)

Rock Island, WA  
Douglas County

Site Description: (Include management areas, compounds of concern, and quantities)

Silicon Metaltech is an active silicon smelting plant located in Rock Island. The former quality control laboratory building present at the site was razed, and mercury contaminated soil discovered. The bulk of the mercury-contaminated soil has been removed, placed in plastic-lined and uncovered crates and stored outside. Some contaminated soil still remains in the subsurface. Excavation occurred in 1988.

Quantity: Stockpiled boxed 60 64 ft<sup>3</sup> boxes = 142 yd<sup>3</sup> available to air route. Ground water route scored as unknown quantity since unknown amount of contaminated soil remains.

Special Considerations: (Include limitations in site file data, data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site)

Surface water route not scored.

Scored air route using vapor pressure for mercury, not particulate mobility. Gravelly soils indicate no particulate mobility potential for other metals.

ROUTE SCORES:

Ground Water/Human: 37.9

Overall Rank: \_\_\_\_\_

Surface Water/Human: NS

Air/Human: 20.3

Air/Environmental: 0

Surface Water/Environmental: NS



WORKSHEET 2  
ROUTE DOCUMENTATION

SURFACE WATER ROUTE

List substances to be considered for scoring.

Source: \_\_\_\_\_

Explain basis for choice of substances to be used in scoring.

List management units to be considered in scoring:

Source: \_\_\_\_\_

Explain basis for choice of unit used in scoring.

AIR ROUTE

List substances to be considered for scoring.

Source: \_\_\_\_\_

Mercury, chromium, lead, cadmium  
arsenic.

Explain basis for choice of substances to be used in scoring.

Stockpiled material

List management units to be considered in scoring:

Source: \_\_\_\_\_

uncovered 64-cubic foot containers

Explain basis for choice of unit used in scoring.





WORKSHEET 2 (CONTINUED)  
ROUTE DOCUMENTATION

GROUND WATER ROUTE

List substances to be considered for scoring.

Source: \_\_\_\_\_

mercury, arsenic chromium lead

Explain basis for choice of substances to be used in scoring.

List management units to be considered in scoring:

Source: \_\_\_\_\_

contaminated soil in unknown quantity

Explain basis for choice of unit used in scoring.



WORKSHEET 3  
SUBSTANCE CHARACTERISTIC WORKSHEET  
FOR MULTIPLE UNIT/SUBSTANCE SITES

	Combination 1	Combination 2	Combination 3
Unit: Substance:			
<u>AIR ROUTE</u>			
Human Toxicity/Mobility Value:			
Environmental Toxicity/Mobility Value:			
Containment Value:			
Air Human Subscore:			
Air Environmental Score:			
<u>SURFACE WATER ROUTE</u>			
Human Toxicity Value:			
Environmental Toxicity Value:			
Containment Value:			
Surface Water Human Subscore:			
Surface Water Environmental Subscore:			
<u>GROUND WATER ROUTE</u>			
Human Toxicity/Mobility Value:			
Containment Value:			
Ground Water Subscore:			



**WORKSHEET 4**  
**SURFACE WATER ROUTE**

**1.0 SUBSTANCE CHARACTERISTICS**

**1.1 Human Toxicity**

Substance	Drinking Water Std.		Chronic Toxicity		Acute Toxicity		Carcinogenicity		
	( $\mu\text{g/l}$ )	Value	mg/kg/day	Value	mg/kg-bw	Value	WOE	Potency Factor	Value
1.									
2.									
3.									
4.									
5.									
6.									

Source: \_\_\_\_\_

Highest Value: \_\_\_\_\_

+2 Bonus Points?: \_\_\_\_\_

Value: \_\_\_\_\_

**1.2 Environmental Toxicity**

Substance	Acute Criteria ( $\mu\text{g/L}$ )	Non-human mammalian acute toxicity (mg/kg)	Value
1.			
2.			
3.			
4.			
5.			
6.			

Source: \_\_\_\_\_ Value: \_\_\_\_\_

**1.3 Substance Quantity**

Explain basis: \_\_\_\_\_

\_\_\_\_\_

Source: \_\_\_\_\_ Value: \_\_\_\_\_

**2.0 MIGRATION POTENTIAL**

**2.1 Containment**

Explain basis: \_\_\_\_\_

\_\_\_\_\_

Source: \_\_\_\_\_ Value: \_\_\_\_\_

2.2 Surface Soil Permeability: \_\_\_\_\_

Source: \_\_\_\_\_ Value: \_\_\_\_\_

2.3 Total Annual Precipitation: \_\_\_\_\_

Source: \_\_\_\_\_ Value: \_\_\_\_\_

2.4 Maximum 2-Year 24-Hr Precipitation: \_\_\_\_\_

Source: \_\_\_\_\_ Value: \_\_\_\_\_

2.5 Flood Plain: \_\_\_\_\_

Source: \_\_\_\_\_ Value: \_\_\_\_\_

2.6 Terrain Slope: \_\_\_\_\_

Source: \_\_\_\_\_ Value: \_\_\_\_\_





WORKSHEET 4 (CONTINUED)  
SURFACE WATER ROUTE

3.0 TARGETS

3.1 Distance to Surface Water: \_\_\_\_\_

Source: \_\_\_\_ Value: \_\_\_\_

3.2 Population Served within 2 miles: \_\_\_\_\_

Source: \_\_\_\_ Value: \_\_\_\_

3.3 Area Irrigated by Sources within 2 miles: \_\_\_\_\_

Source: \_\_\_\_ Value: \_\_\_\_

3.4 Distance to Fishery Resource: \_\_\_\_\_

Source: \_\_\_\_ Value: \_\_\_\_

3.5 Distance to Sensitive Environment: \_\_\_\_\_

Source: \_\_\_\_ Value: \_\_\_\_

List: \_\_\_\_\_  
\_\_\_\_\_

4.0 RELEASE

Explain basis: \_\_\_\_\_  
\_\_\_\_\_

Source: \_\_\_\_ Value: \_\_\_\_



**WORKSHEET 5 (CONTINUED)**  
**AIR ROUTE**

**1.0 SUBSTANCE CHARACTERISTICS**

**1.1** Introduction - please review before scoring

**1.2** Human Toxicity

Substance	Air Std.		Chronic Toxicity		Acute Toxicity		Carcinogenicity		
	$\mu\text{g}/\text{m}^3$	Value	$\text{mg}/\text{kg}/\text{day}$	Value	$\text{mg}/\text{kg}-\text{bw}$	Value	WOE	Potency Factor	Value
1. Mercury		0		0		8			0
2. Arsenic		10		0		10			0
3. Chromium		10		0		0			0
4. Lead		10		10		0			0
5. Cadmium		10		10		0			0

Source: \_\_\_\_\_

Highest Value: 10

+2 Bonus Points?: 2

Toxicity Value: 12

**1.3** Mobility

**1.3.1** Gaseous Mobility

Vapor Pressure: \_\_\_\_\_

Value: \_\_\_\_\_

Source: \_\_\_\_\_

**1.3.2** Particulate Mobility

Soil Type: Gravel

Erodibility: 22

Climatic Factor: 10-30

Particulate Mobility Potential Value: 0

Source: \_\_\_\_\_

**1.4** Final Human Health Toxicity/Mobility Matrix:

Value: 18

**1.5** Environmental Toxicity/Mobility

Substance	Non-human mammalian		Mobility	
	Acute Toxicity	Value		Value
1. Mercury		8	3-vapor	0
2. Arsenic		0		0
3. Chromium		10		0
4. Lead		0		0
5. Cadmium		0		0
6.		0		0

Environmental Toxicity Mobility Matrix:

Source: 1 Value: 12

**1.6** Substance Quantity: 142 yds<sup>3</sup>

Source: 1 Value: 6



WORKSHEET 5  
AIR ROUTE

2.0 MIGRATION POTENTIAL

2.1 Containment: Above ground container/was be  
piled outdoors uncovered

Source: 1 Value: 10

3.0 TARGETS

3.1 Nearest Population: <1000 ft

Source: 1 Value: 10

3.2 Nearest Sensitive Environment: Site is in industrial  
list: area. no sensitive environments  
for this route within one mile

Source: 1 Value: 0

3.3 Population within 1/2 mile: 22 ~~00~~ T

Source: 1 Value: 15

4.0 RELEASE: No evidence for lab site.

Source: 1 Value: 0





**WORKSHEET 6  
GROUND WATER ROUTE**

**1.0 SUBSTANCE CHARACTERISTICS**

**1.1 Human Toxicity**

Substance	Drinking Water Std.		Chronic Toxicity		Acute Toxicity		Carcinogenicity		
	(µg/l)	Value	mg/kg/day	Value	mg/kg-bw	Value	WOE	Potency Factor	Value
1. Mercury		8		000		5			0
2. Lead		8		000		05			000
3. Chromium		6		500		15			700
4. Arsenic		8		5		5			0
5. Cadmium									

Source: \_\_\_\_\_

Highest Value: 8

+2 Bonus Points?: 2

Value: 10

**1.2 Mobility**

Substance: \_\_\_\_\_

Hg 3  
 Pb 2  
 Cr 1  
 As 3  
 Cd 3

Source: 1 Value: 3

**1.3 Substance Quantity**

Explain basis: unknown

Source: 1 Value: 1

**2.0 MIGRATION POTENTIAL**

**2.1 Containment**

Explain basis: contaminated soil-10

Source: \_\_\_\_\_ Value: 10

2.2 Net Precipitation: 3.0 ins

Source: 1 Value: 1

2.3 Subsurface Hydraulic Conductivity: 10<sup>-1</sup>

Source: 1 Value: 4

2.4 Vertical Depth to Ground Water: 0 - contaminated

Source: 1 Value: 8

**3.0 TARGETS**

3.1 Ground Water Usage: Public, no alternate supply

Source: 1 Value: 9

3.2 Distance to Nearest Drinking Water Well: 4600 ft

Source: 1 Value: 5

3.3 Population Served with 2 miles: 144 ✓

Source: 1 Value: 12

3.4 Area Irrigated by Wells within 2 miles: 456 0.75 ✓

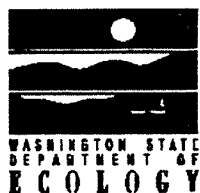
Source: 1 Value: 16

**4.0 RELEASE**

Explain basis: Analytical evidence

Source: 1 Value: 5





# SITE REGISTER TOXICS CLEANUP PROGRAM

August 25, 1992  
Special Issue

This issue includes the Hazardous Sites List (HSL), the high priority sites selected for site hazard assessment (SHA) and remedial investigation/feasibility study (RI/FS), removals from the HSL and sites which after assessment have been determined to require no further action (NFA).

## HAZARDOUS SITES LIST and NOTICE OF HAZARD RANKINGS by Responsible Section

This is an updated HAZARDOUS SITES LIST as required by WAC 173-340-330. It includes all sites which have been assessed and ranked using the Washington Ranking Method (WARM). Also listed are National Priority List sites. Future additions to the List, changes in remedial status of sites on the List and removal from the List will be published twice a year. Placement of a site on the Hazardous Sites List does not, by itself, imply that persons associated with the site are liable under Chapter 70.105D RCW. For additional information about a site on this List, please contact the appropriate indicated person. Direct questions regarding HAZARDOUS SITES LIST or SITE REGISTER circulation to Sherrie Hanson at (206) 438-3017 or 1-800-458-0920.

### CENTRAL REGION

Contact Person: Mark Peterschmidt (509) 454-7840

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Benton	Ben Franklin Transit	Richland	5◇	Independent RA
	#CENEX	Kennewick	4◇	Independent RA
	Oggie's Mini-Mart	Prosser	5◇	Independent RA
	Simplot	Prosser	4	Independent RA
Chelan	Cascade Helicopter	Cashmere	2	RA in Progress
	Cashmere Landfill	Cashmere	1	Awaiting RA
	Dryden Landfill	Dryden	4	Awaiting RA
	Glacier Park	Leavenworth	1	RA in Progress
	Holden Mine Tailings	Holden	1	Independent RA
	Manson Landfill	Manson	2	Awaiting RA
	Unocal Bulk Plant #0082	Chelan	1	Awaiting RA
	Unocal Bulk Plant #0853	Wenatchee	1	Awaiting RA
	Unocal Service Station #4942	Wenatchee	4◇	Awaiting RA
	WSU Tree-Fruit Research Unit (Wenatchee Pesticide Lab)	Wenatchee	3	Independent RA
Douglas	Beebe Orchard Dump	Chelan Falls	5	Awaiting RA
	Inland Air Service (Fancher Field)	East Wenatchee	4	Awaiting RA
	Silicon Metaltech Inc. Lab. Site	Rock Island	5	Awaiting RA
	Silicon Metaltech Inc. Lagoon Site	Rock Island	4	Awaiting RA
Kittitas	Big B Mini-mart (Exxon)	Ellensburg	4	Awaiting RA
	Bingo Fuel Stop	Thorp	2	RA in Progress
	Mid-State Aviation	Ellensburg	3	Awaiting RA

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◇ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.

# SITE REGISTER

August 25, 1992

## HAZARDOUS SITES LIST (Continued)

### CENTRAL REGION (Cont.)

Contact Person: Mark Peterschmidt (509) 454-7840

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Klickitat	Town Pump Station	White Salmon	1	RA in Progress
Okanogan	Arden's Country Store	Malott	3	RA in Progress
	Brett Pit	Grand Coulee Dam	2	Awaiting RA
	Eisen Chevron Station	Oroville	2	RA in Progress
	Gebbers Farm Dump	Brewster	1	Awaiting RA
	Minnie Mine	Carlton	2	RA in Progress
	Molson Dump	Molson	5	Awaiting RA
	Oroville Dump	Oroville	5	Independent RA
	Pariseau Farm Dump	Brewster	2	Awaiting RA
	Tonasket Post & Rail	Tonasket	5	Awaiting RA
	USDOI-BLM Kaaba Texas Mine	Nighthawk	1	RA in Progress
Yakima	Bay Chemical Company (former E. Washington Ave. site)	Yakima	2	RA in Progress
	Bee-Jay Scales (Valley Agriculture)	Sunnyside	1	Awaiting RA
	Boise Cascade	Naches	1	Independent RA
	Briar Development Company	Yakima	3	RA in Progress
	Cameron-Yakima, Inc.	Yakima	1	RA in Progress
	Cascade Natural Gas	Sunnyside	1	RA in Progress
	Cliff's Battery Service	Sunnyside	4	Awaiting RA
	CMX Corporation	Yakima	3	RA in Progress
	Comet Trailer Corp.	Selah	1	Awaiting RA
	Consolidated Freightways	Yakima	4	Independent RA
	Evergreen Products	Parker	3	Awaiting RA
	Frank Wear Cleaners	Yakima	1	RA in Progress
	Hahn Motor Company	Yakima	5	RA in Progress
	Irwin Research and Development, Inc.	Yakima	2	Awaiting RA
	Jackpot Station	Union Gap	40	Awaiting RA
	Johnny's Texaco	Sunnyside	4	RA in Progress
	Kellogg's Korner	Sunnyside	1	RA in Progress
	La Rosita	Sunnyside	40	Awaiting RA
	#Maid O'Clover - E. Nob Hill Blvd.	Yakima	2	Independent RA
	Manhole 34	Sunnyside	1	RA in Progress
	Northwest Truck Repair	Union Gap	40	Awaiting RA
	Nu-Way Cleaners	Yakima	1	RA in Progress
	Old Selah Dump Site	Selah	50	Awaiting RA
	Outlook School	Outlook	50	IRA Conducted
	Paxton Sales Corporation	Yakima	1	RA in Progress
	Pederson Fryer Farms	Moxee	3	IRA Conducted
	Pit Stop	Naches	2	Awaiting RA
	Rainier Plastics Co.	Yakima	3	Awaiting RA
	Richardson Airways	Yakima	2	RA in Progress
	Section 18 Dump	Wapato	3	Awaiting RA
	Shields Bag and Paper Co.	Yakima	50	Awaiting RA
	Snipes Mountain Landfill	Sunnyside	4	Awaiting RA

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◇ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.

# SITE REGISTER

August 25, 1992

## HAZARDOUS SITES LIST (Continued)

### CENTRAL REGION (Cont.)

Contact Person: Mark Peterschmidt (509) 454-7840

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Yakima (cont.)	Southgate Laundry	Yakima	3	Awaiting RA
	#Superior Asphalt	Yakima	1	RA in Progress
	Sunnyside Municipal Well	Sunnyside	50	Awaiting RA
	Tiger Oil Corporation (24th and Nob Hill)	Yakima	1	RA in Progress
	Tiger Oil Corporation (North 1st Street)	Yakima	3	Awaiting RA
	Toppenish School District (#202 Bus Garage)	Toppenish	40	Awaiting RA
	Valley Cleaners	Sunnyside	2	Awaiting RA
	Van Cleave Body Shop	Yakima	1	Awaiting RA
	Woods Ind. (Crop King)	Yakima	1	RA in Progress
	Yakima County (former Crest Linen)	Yakima	1	RA in Progress
	Yakima Valley Spray	Yakima	1	RA in Progress
	Zwight Logging	Yakima	3	Awaiting RA

### EASTERN REGION

Contact Person: Patti Carter (509) 456-6167

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Adams	Burlington Northern-Othello	Othello	1	RA in Progress
	CMC Real Estate	Othello	5	Awaiting RA
	Harold's Deli	Othello	5	RA in Progress
	Puregro	Othello	5	Awaiting RA
	Puregro	Ritzville	5	Awaiting RA
	Soil & Crop	Othello	2	RA in Progress
	T-16 Ranch	Lind	5	Independent RA
	WWT Batum Facility	Batum	5	Awaiting RA
Asotin	Asotin County Landfill	Clarkston	50	Awaiting RA
Ferry	Hecla Knob Hill Mine	Republic	5	Awaiting RA
Franklin	#Glen's Metals	Pasco	50	Awaiting RA
	Pasco Landfill	Pasco	**	RA in Progress
	Port of Pasco	Pasco	1	RA in Progress
	Puregro	Pasco	1	Awaiting RA
	#Smith Canyon	Pasco	5	Independent RA
Grant	Ephrata Landfill	Ephrata	5	Awaiting RA
	Grant Co. Dangerous Waste Site	Royal City	50	Awaiting RA
	International Titanium	Moses Lake	4	Awaiting RA
	Puregro	Moses Lake	5	Awaiting RA
	Puregro	Quincy	5	Awaiting RA
	Puregro	Warden	5	Awaiting RA
	Vista Corner Texaco	Moses Lake	3	Awaiting RA
Lincoln	Puregro	Wilbur	5	Awaiting RA
Pend Oreille	Cusick School District	Cusick	50	Cleanup Conducted

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◊ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.

# SITE REGISTER

August 25, 1992

## HAZARDOUS SITES LIST (Continued)

### EASTERN REGION (Cont.)

Contact Person: Patti Carter (509) 456-6167

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Spokane	Alaska Steel and Supply	Spokane	4	Awaiting RA
	Alum. Recycling Corp. (Wellesley)	Spokane	2	Awaiting RA
	#American Tar Company	Spokane	50	Awaiting RA
	Argonne Road	Spokane	3	RA in Progress
	B.J. Carney & Company	Spokane	40	Awaiting RA
	Burlington Northern-Hillyard	Spokane	4	Awaiting RA
	#Cummins Northwest	Spokane	50	Independent RA
	Four Lakes Tire Fire	Four Lakes	50	Awaiting RA
	#Geiger-Conoco Fuel Storage	Spokane	50	Awaiting RA
	#Geiger-SIA-Fire Training Area	Spokane	4	Awaiting RA
	#Geiger-SIA-Fuel Farm	Spokane	50	Independent RA
	#Geiger-SIABP-COE Geiger Field	Spokane	2	Independent RA
	#Geiger-SIABP-Corrections Facility	Spokane	50	Awaiting RA
	#Geiger-SIABP-Shamrock Paving	Spokane	50	Awaiting RA
	General Electric (Spokane Shop)	Spokane	**	RA in Progress
	Greenacres Landfill	Greenacres	**	RA in Progress
	Inland Empire Plating	Spokane	1	Independent RA
	Inland Metals, Inc	Spokane	2	Independent RA
	Inland Pit	Spokane	**	Awaiting RA
	#Koch Materials Co.	Spokane	3	Awaiting RA
	Marshall Landfill	Marshall	4	Awaiting RA
	Mica Landfill	Mica	**	RA in Progress
	North Market Street	Spokane	**	RA in Progress
	Spokane Junkyard	Spokane	3	Awaiting RA
	Spokane Transit Authority (Bus Barn)	Spokane	50	Independent RA
	United Parcel Service	Spokane	50	Awaiting RA
	Washington State Dept. of Transportation-Mayfair	Spokane	50	Awaiting RA
Stevens	Whitten Oil Exxon	Colville	3	RA in Progress
Walla Walla	Walla Walla Farmers Coop	Walla Walla	1	RA in Progress
Whitman	Endicott School District	Endicott	4	RA in Progress
	Garfield School District	Garfield	50	RA in Progress
	Oakesdale City Well #4	Oakesdale	4	Cleanup Conducted
	Palouse Producers	Palouse	1	RA in Progress
	WSU Landfill	Pullman	4	Awaiting RA

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◇ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.



# SITE REGISTER

August 25, 1992

## HAZARDOUS SITES LIST (Continued)

### INDUSTRIAL SECTION

Contact Person: Paul Skyllingstad (206) 586-0583

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Clallam	Daishowa America Co.	Port Angeles	5	Independent RA
Clark	ALCOA (Vancouver Smelter)	Vancouver	**	RA in Progress
	Columbia Marine Lines	Vancouver	4	Cleanup Conducted
Cowlitz	Longview Fibre	Longview	5	Awaiting RA
	Reynolds Metals	Longview	5	Awaiting RA
	Weyerhaeuser - Longview	Longview	1	RA in Progress
Klickitat	Columbia Aluminum Corp	Cliffs	3	Awaiting RA
Pierce	Kaiser Aluminum Chemical Corp.	Tacoma	4	RA in Progress
Spokane	Kaiser Aluminum Mead Works	Mead	**	RA in Progress
Whatcom	Georgia Pacific Biotreatment Lagoon	Bellingham	2	Awaiting RA
	Georgia Pacific Corporation	Bellingham	5	Awaiting RA

### NORTHWEST REGION

Contact Persons: Judy Aitken (206) 649-7135  
Elaine Atkinson (206) 649-7042

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
King	Ace Galvanizing Inc.	Seattle	4	Awaiting RA
	Advance Electroplating	Seattle	5	Awaiting RA
	Alaska Pacific Fisheries	Seattle	1	Awaiting RA
	ARCO Tank Farm	Seattle	2	RA in Progress
	Auburn Fire Department	Auburn	3	Awaiting RA
	BNR - Balmer Yard	Seattle	5	Independent RA
	BNR - Interbay	Seattle	1	Independent RA
	BNR - Roundhouse (Skykomish Train Yard)	Skykomish	1	RA in Progress
	Boeing Plant #2	Seattle	1	Awaiting RA
	#Borden Chemical	Kent	1	Awaiting RA
	#C & F Auto Wrecking	Duvall	1	Awaiting RA
	#Cedar Hills Landfill	Maple Valley	1	Independent RA
	Central Painting	Seattle	2	Awaiting RA
	Champion International-Ballard	Seattle	1	RA in Progress
	Chemcentral Solvents	Kent	1	Independent RA
	Eastern Supply	Seattle	2	RA in Progress
	Gas Works Park	Seattle	1	RA in Progress
	#G.E. Apparatus Service Center	Kent	3	Awaiting RA
	Harbor Island	Seattle	**	RA in Progress
	J.H. Baxter Company, Inc.	Renton	1	RA in Progress
	Kenmore Industrial Park (formerly Kenmore Building Materials)	Kenmore	1	Awaiting RA
	Kent Highlands	Kent	**	RA in Progress
	Kent Sewage Lagoons	Kent	4	Awaiting RA
	Laidlaw	Seattle	4	Awaiting RA
	Lake Union Dry Dock	Seattle	1	Awaiting RA
	Lake Washington School District	Kirkland	5	Cleanup Conducted

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◊ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.

## HAZARDOUS SITES LIST (Continued)

### NORTHWEST REGION (Cont.)

Contact Persons: Judy Aitken (206) 649-7135  
Elaine Atkinson (206) 649-7042

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
King (cont.)	Landsburg Mine - Rogers Seam	Black Diamond	1	RA in Progress
	LIDCO Liquid Waste Disposal Co.	Kent	1	RA in Progress
	Lindal Property	Kent	4	Awaiting RA
	Lockheed Ship Building	Seattle	1	RA in Progress
	Longview Fibre-King Co.	Seattle	5	RA in Progress
	Malarkey Asphalt	Seattle	1	Awaiting RA
	Maralco Aluminum	Kent	2	RA in Progress
	Marine Vacuum Service	Seattle	3	Awaiting RA
	#Markey Property	Seattle	3	Awaiting RA
	Metro Lake Union Tank Farm	Seattle	1	Awaiting RA
	Metro South Base	Seattle	1	Awaiting RA
	Midway Landfill	Kent	**	RA in Progress
	Mobil Bulk Facility	Renton	5	RA in Progress
	Monterey Apartments	Seattle	3	RA in Progress
	#Newcastle/Coal Creek Landfill	Newcastle	5	Awaiting RA
	Northwest Cooperage	Seattle	4	Awaiting RA
	Northwest Powder Coats	Kent	50	Awaiting RA
	Old Lawson Road (Accurate Enterprises/Bowen Prop.)	Black Diamond	2	Awaiting RA
	Pacific Car & Foundry Co. (PACCAR)	Renton	**	RA in Progress
	Pacific Way South 252nd	Kent	4	Awaiting RA
	Pioneer Porcelain Enamel Co.	Seattle	5	Awaiting RA
	Precision Engineering	Seattle	1	Independent RA
	Quendall Terminals	Renton	1	RA in Progress
	Reichhold Chemical/Lonestar Cement	Seattle	1	Awaiting RA
	Shell Oil - Old Terminal 18	Seattle	5	RA in Progress
	Shell Tank Farm	Seattle	4	RA in Progress
	Slag Disposal/Beckwith Property	Kent	3	RA in Progress
	Sternoff Metals	Seattle	5	Independent RA
	Sunset Park/Tub Lake - King Co. Dept. Public Works	SeaTac	3	Awaiting RA
	#Texaco Marketing/Refinery - Harbor Island	Seattle	1	Awaiting RA
	Union Station	Seattle	50	Awaiting RA
	Unocal Seattle Market Terminal	Seattle	4	RA in Progress
	#VIOX/McDowell Property	Seattle	50	Awaiting RA
	Western Batteries	Seattle	3	Independent RA
	Zandt Brass Foundry	Seattle	4	RA in Progress
Kitsap	#Bainbridge Island Landfill	Bainbridge	1	Awaiting RA
	Bethel Wells (former Texaco)	Bethel	50	RA in Progress
	Chevron Tank Farm	Bremerton	2	Independent RA
	Country Junction Store	Port Orchard	4	RA in Progress
	Day Road Industrial Park	Bainbridge Island	5	Awaiting RA
	Hansville Landfill	Little Boston	1	Awaiting RA
	Lofthas Bulk Fuel Facility	Bremerton	1	Awaiting RA

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◊ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.

# SITE REGISTER

August 25, 1992

## HAZARDOUS SITES LIST (Continued)

### NORTHWEST REGION (Cont.)

Contact Persons: Judy Aitken (206) 649-7135  
Elaine Atkinson (206) 649-7042

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Kitsap	Norseland Site	Port Orchard	2	Awaiting RA
(cont.)	Stone Property	Bainbridge Island	4	Awaiting RA
	Strandley Manning Site	Port Orchard	3	RA in Progress
Skagit	Butler Hill Lagoon	Burlington	4	RA in Progress
	Unocal Tank Farm	Mt. Vernon	1	Awaiting RA
Snohomish	East Waterway	Everett	2	Awaiting RA
	Everett Smelter	Everett	1	RA in Progress
	Everett Tire Fire	Everett	1	RA in Progress
	#Fisherman's Boat Shop	Everett	3	Awaiting RA
	#J.H. Baxter & Company	Arlington	4	Awaiting RA
	Ken's Radiator	Lynnwood	2	Independent RA
	Nord Door	Everett	5	Independent RA
	#Pump Crete	Lynnwood	5	Awaiting RA
	Snohomish Co. PUD -			
	Lynnwood Substation	Lynnwood	2	Awaiting RA
	Unocal - Edmonds Bulk Plant	Edmonds	1	RA in Progress
	U.S. Defense Fuel Supply Point	Mukilteo	1	RA in Progress
	Wallace River Park Well	Startup	4	RA in Progress
	Weyerhaeuser - Mill Site	Everett	1	Independent RA
Whatcom	Boulevard Park	Bellingham	1	Awaiting RA
	#Cornwall Avenue Landfill	Bellingham	2	Awaiting RA
	Georgia Pacific Airport			
	Landfill	Bellingham	4	Awaiting RA
	Oeser Cedar (Little Squalicum Creek)	Bellingham	1	Awaiting RA
	#R.G. Haley Int.	Bellingham	3	Awaiting RA
	#Sunshine Cleaners	Bellingham	2	Awaiting RA
	Trans Mountain Oil Pipeline -			
	Laurel Pump Station	Bellingham	1	RA in Progress
	#Uniflite/Murray Chris-Craft	Bellingham	2	Awaiting RA
	Whatcom Waterway	Bellingham	1	Awaiting RA
	Wilder Landfill (Thermal Reduction)	Ferndale	1	RA in Progress

### NUCLEAR AND MIXED WASTE PROGRAM - HANFORD PROJECT

Contact Person: Dave Jansen (206) 438-7021

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Benton	Hanford 100-Area (USDOE)	Richland	**	RA in Progress
	Hanford 1100-Area (USDOE)	Richland	**	RA in Progress
	Hanford 200-Area (USDOE)	Richland	**	RA in Progress
	Hanford 300-Area (USDOE)	Richland	**	RA in Progress

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◇ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.

# SITE REGISTER

August 25, 1992

## HAZARDOUS SITES LIST (Continued)

### SITE CLEANUP SECTION

Contact Person: Tim Nord (206) 438-3039

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***	
Clark	Bonneville Power Adm Ross (USDOE)	Vancouver	**	RA in Progress	
	Frontier Hard Chrome, Inc	Vancouver	**	RA in Progress	
	Vancouver Well #4	Vancouver	**	Awaiting RA	
Grant	Moses Lake Wellfield	Moses Lake	**	Awaiting RA	
Island	Naval Air Sta. Whid Is (Ault)	Whidbey Island	**	RA in Progress	
	Naval Air Sta. Whid Is (Seaplane)	Whidbey Island	**	RA in Progress	
Jefferson	NUWES Indian Island	Chimacum	1	RA in Progress	
King	Queen City Farms	Maple Valley	**	RA in Progress	
	Western Processing Co., Inc.	Kent	**	Cleanup Conducted	
Kitsap	Eagle Harbor	Bainbridge Island	**	RA in Progress	
	#Jackson Park Housing Complex (JPHC)	Bremerton	1	Awaiting RA	
	NUWES - Keyport (4 areas)	Keyport	**	RA in Progress	
	Puget Sound Naval Shipyard	Bremerton	1	RA in Progress	
	US Navy Bangor Naval Submarine Base	Silverdale	**	RA in Progress	
	US Navy Bangor Ordnance Disposal	Silverdale	**	RA in Progress	
	US Naval Supply Center	Bremerton	1	RA in Progress	
	Wyckoff Company	Bainbridge Island	**	RA in Progress	
	Lewis	American Crossarm & Conduit Co.	Chehalis	**	RA in Progress
	Okanogan	Silver Mountain Mine	Loomis	**	RA in Progress
	Pierce	ASARCO	Tacoma	**	RA in Progress
		Commencement Bay, Ruston/Vashon	Tacoma	**	RA in Progress
		McChord AFB(American Lake Gardens)	Tacoma	**	RA in Progress
		McChord AFB (Wash Rack/Treatment)	Tacoma	**	RA in Progress
Ponders Corner (Lakewood Site)		Lakewood	**	RA in Progress	
South Tacoma Field (Tacoma Swamp)		Tacoma	**	RA in Progress	
Tacoma Landfill		Tacoma	**	RA in Progress	
Tacoma Tar pits		Tacoma	**	RA in Progress	
US Army-Fort Lewis (Ldfl #4/SRCPP)		Fort Lewis	**	RA in Progress	
US Army-Fort Lewis (Landfill No. 5)		Fort Lewis	**	RA in Progress	
US Army-Fort Lewis Logistics Center		Fort Lewis	**	RA in Progress	
Well-12A		Tacoma	**	RA in Progress	
Skagit		EDB-2-Birdsview	Mount Vernon	1	Cleanup Conducted
Skamania		USACOE-Hamilton Island Landfill	North Bonneville	**	Awaiting RA
Snohomish	Tulalip Landfill	Marysville	**	Awaiting RA	
Spokane	Colbert Landfill	Colbert	**	RA in Progress	
	Fairchild Air Force Base (4 Areas)	Spokane	**	RA in Progress	
	Mica Peak Radar Facility	Spokane	4	RA in Progress	
	Northside Landfill	Spokane	**	RA in Progress	
	Thurston	EDB-1-(Spoooner Strawberry Farm)	Olympia	2	Cleanup Conducted
Whatcom	Restover Truck Stop	Tumwater	3	RA in Progress	
	EDB-3-Meadowdale	Lynden	3	Cleanup Conducted	
	Northwest Transformer(Mission/Pole)	Everson	**	RA in Progress	
Yakima	Northwest Transformer(So. Harkness)	Everson	**	RA in Progress	
	FMC Corp. (Yakima Pit)	Yakima	**	RA in Progress	
	Pesticide Lab (Yakima)	Yakima	**	RA in Progress	
	Yakima Plating Co.	Yakima	**	RA in Progress	

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◇ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.

# SITE REGISTER

August 25, 1992

## HAZARDOUS SITES LIST (Continued)

### SOUTHWEST REGION

Contact Person: Dick Heggen (206) 586-8618

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***	
Clallam	#Chevron Bulk Plant	Port Angeles	1	Awaiting RA	
	PenPly (ITT Rayonier)	Port Angeles	5	RA in Progress	
	#Port of Port Angeles Log Yard	Port Angeles	1	Awaiting RA	
	Truck Town	Port Angeles	3	Awaiting RA	
	#Unocal Bulk Oil Storage				
	Terminal #0601	Port Angeles	1	Independent RA	
Clark	Allied Chemical				
	(General Chemical Corp.)	Vancouver	5	Awaiting RA	
	Burlington Northern - Vanc.	Vancouver	1	Awaiting RA	
	Carborundum Co.				
	(Now SOHIO Vancouver				
	Electrominerals Co.)	Vancouver	1	Awaiting RA	
	Circle "C" Landfill	Ridgefield	1	Cleanup Conducted	
	GATX Terminals	Vancouver	1	Awaiting RA	
	Griffie Cleaners	Vancouver	5	Awaiting RA	
	L & C Deli	Vancouver	4	RA in Progress	
	Larch Mountain (DNR)	Washougal	2	Independent RA	
	Leichner Bros. Landfill	Vancouver	3	RA in Progress	
	Orbit Industries	Washougal	4	Awaiting RA	
	Pacific NW Plating - Boomsnub Corp.	Vancouver	1	RA in Progress	
	Port of Vancouver	Vancouver	1	RA in Progress	
	Robertson's Paint Shop	Vancouver	5	Awaiting RA	
	Tidewater Barge Lines	Vancouver	2	Awaiting RA	
	Vancouver Wells 1,3	Vancouver	4	RA in Progress	
Cowlitz	Chevron USA, Longview	Longview	1	Awaiting RA	
	Cliff Koppe Metals	Kelso	2	Awaiting RA	
	Gardner Forest Products				
	(N.B. Gardner)	Longview	4	Independent RA	
	Olympic Pipeline Company	Castle Rock	1	Awaiting RA	
	Ostrander Rock Disposal	Longview	4	Awaiting RA	
	Radakovich Landfill	Longview	1	Awaiting RA	
	Reed Landfill	Kelso	1	Awaiting RA	
	Unocal Bulk Plant #0321	Kelso	1	Awaiting RA	
	West Coast/Mobil Oil	Longview	1	RA in Progress	
	Grays Harb.	Most Western Laundry	Hoquiam	1	Awaiting RA
		Roderick Timber Company	Junction City	1	Awaiting RA
Snook Residence		Oakville	1	Awaiting RA	
Jefferson	Chevron Bulk Plant	Port Townsend	1	Awaiting RA	
	Olympic Testing Labs	Quilcene	2	Awaiting RA	
	#Texaco Bulk Plant	Port Townsend	2	Awaiting RA	
Lewis	Centralia Landfill	Centralia	**	RA in Progress	
	Packwood Lumber Co.	Packwood	4	Awaiting RA	
	Trailer Village	Centralia	4	Awaiting RA	
	Utility Transformer Service Co.	Pe Ell	4	Awaiting RA	
Mason	Certified Aerospace, Inc.	Shelton	4	Awaiting RA	
Pacific	Weyerhaeuser - Truck Shop	Raymond	1	RA in Progress	

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◇ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.



# SITE REGISTER

August 25, 1992

## HAZARDOUS SITES LIST (Continued)

### SOUTHWEST REGION (Cont.)

Contact Person: Dick Heggen (206) 586-8618

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Pierce	Atochem Corp (2901 Taylor Way)	Tacoma	1	RA in Progress
(cont.)	Atochem Corp (3009 Taylor Way)	Tacoma	2	RA in Progress
	B & L Woodwaste Fill	Milton	1	RA in Progress
	Brazier Forest Industries	Tacoma	1	Independent RA
	Buffalo Don Murphy-Waller Rd.	Tacoma	1	Awaiting RA
	#Calhoun's Service Station	Tacoma	2	Awaiting RA
	Camp Murray	Tillicum	1	Independent RA
	Cascade Pole-McFarland/Sitcum	Tacoma	4	RA in Progress
	Cascade Pole-Tacoma	Tacoma	1	RA in Progress
	Cascade Timber #1	Tacoma	1	RA in Progress
	Chevron Bulk Plant	Tacoma	3	Independent RA
	Comm Bay-Near Shore/Tide Flats (includes Cascade Timber #3 - Port of Tacoma and Cascade Timber #3 - US Oil)	Tacoma	**	RA in Progress
	Coski Industrial Dump	Tacoma	5	Awaiting RA
	"D" Street Petroleum	Tacoma	4	RA in Progress
	Dorman Tire Fire	Roy	1	Awaiting RA
	General Metals	Tacoma	1	RA in Progress
	Hidden Valley Landfill(Thun Field)	Puyallup	**	RA in Progress
	Landscaping by Pat Boring	Tacoma	4	Awaiting RA
	Lincoln Ave. Drainage Ditch	Tacoma	3	Awaiting RA
	Louisiana Pacific	Tacoma	1	RA in Progress
	Manke Lumber	Sumner	5	Awaiting RA
	#(b) (6) Residence	Tacoma	3	Awaiting RA
	McNeil Island	Steilacoom	1	Cleanup Conducted
	Murray Pacific No. 1	Tacoma	1	RA in Progress
	Music Machine, The	Tacoma	40	RA in Progress
	National Oil Dump	Tacoma	4	Awaiting RA
	Occidental Chem. - Marine View	Tacoma	3	Awaiting RA
	Parkland Cleaners	Tacoma	3	Independent RA
	Petroleum Reclaiming Services	Tacoma	2	Awaiting RA
	Puget Sound Power & Light - Electron Camp	Orting	2	Independent RA
	Rhone-Poulenc (Basic Chemicals Co.)	Tacoma	3	Awaiting RA
	Sumner National Auto Parts	Sumner	1	Awaiting RA
	#Tacoma Metals, Inc.	Tacoma	2	Awaiting RA
	Tacoma Storm Drains	Tacoma	1	RA in Progress
	Tam Engineering	Tacoma	1	Awaiting RA
	Union Pacific RR - Tunnel	Tacoma	3	Awaiting RA
	Valley Refinishing	Bonney Lake	1	Awaiting RA
	Wasser Winters	Tacoma	1	RA in Progress
	West Coast Saws/Carbide Processors	Tacoma	4	Independent RA
	Weyerhaeuser-Dupont	Dupont	2	RA in Progress
	Xytec, Inc. (NW Monitor Molded Products)	Tacoma	2	Awaiting RA

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◇ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.



# SITE REGISTER

August 25, 1992

## HAZARDOUS SITES LIST (Continued)

### SOUTHWEST REGION (Cont.)

Contact Person: Dick Heggen (206) 586-8618

COUNTY	SITE NAME	NEAREST CITY	RANK*	STATUS***
Thurston	American Fiberglass	Tumwater	2	Independent RA
	#Black Lake Grocery	Olympia	2	Awaiting RA
	Cascade Pole-Olympia	Olympia	1	RA in Progress
	Cedar Creek Corrections Center	Littlerock	2	Independent RA
	Fourth Street Mobil	Olympia	40	RA in Progress
	Hytex - Littlerock	Littlerock	4	Awaiting RA
	#Hytex - Tumwater	Tumwater	3	Awaiting RA
	Lacey DNR Compound	Lacey	4	Independent RA
	Lacey Laundromat (formerly Thurston Co. Water Dist. #2)	Lacey	1	Awaiting RA
	Lacey Valve Grinding	Lacey	50	Awaiting RA
	Minitrie Tire Fire	Rochester	1	Awaiting RA
	Monarch Bullet	Rochester	1	Awaiting RA
	Pattison Lake EDB	Lacey	40	RA in Progress
	Puget Sound Power & Light	Olympia	5	Independent RA
	Rhodes Chemical Co. Dump	Rochester	3	Awaiting RA
	Rhodes Chemical Co. - Barn	Rochester	3	Awaiting RA
	Texaco Bulk Plant	Tumwater	3	Independent RA
	Unocal - Hulco Site	Olympia	4	Awaiting RA
	Weyerhaeuser Box Plant	Olympia	3	Awaiting RA
	Wolph's Second Hand Store	Olympia	2	Awaiting RA
	Wood Fabricators	Yelm	4	Awaiting RA

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◇ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.

## STATEWIDE NO FURTHER ACTION SITES

*SITE HAZARD ASSESSMENTS were completed on these sites before August 1992 and Ecology finds no further action is indicated under the Model Toxics Control Act. For identification of previously designated 'no further action' sites, contact Sherrie Hanson at (206) 438-3017.*

### CENTRAL REGION

Contact: Mark Peterschmidt (509) 454-7840

COUNTY	SITE NAME	NEAREST CITY
Yakima	Madame Kleen	Yakima
	Yakima Valley Community College	Yakima

### EASTERN REGION

Contact: Patti Carter (509) 456-6167

COUNTY	SITE NAME	NEAREST CITY
Grant	WA Army National Guard Shop #2	Ephrata
Spokane	Geiger-SIABP-Spokane County Engineers Shop	Spokane
Walla Walla	Walla Walla Airport - Burn Pit	Walla Walla

### NORTHWEST REGION

Contacts: Judith Aitken (206) 649-7135  
Elaine Atkison (206) 649-7042

COUNTY	SITE NAME	NEAREST CITY
King	Highline Auto Massage	Burien
Snohomish	Buse Timber & Sales	Everett
Snohomish	Monroe Landfill	Monroe

### SOUTHWEST REGION

Contact: Dick Heggen (206) 586-8618

COUNTY	SITE NAME	NEAREST CITY
Clark	Duane Kennedy	Vancouver
Jefferson	Fowlers Park Roadbed	Port Townsend

\*Rank: Highest Assessed Risk = 1 and Lowest Assessed Risk = 5.

\*\*National Priorities List sites, ranked under the Federal Hazard Ranking system.

\*\*\*STATUS: Remedial Action (RA), Independent RA (IRA)

◊ Groundwater is the only affected pathway at this site.

# New site added to the ranked list August, 1992.

@ New site added to the National Priorities List.

# SITE REGISTER

August 25, 1992

## HIGH PRIORITY SITES for REMEDIAL INVESTIGATION/FEASIBILITY STUDY by REGION

These contaminated sites have been designated as high priority for remedial action by Ecology as required by WAC 173-340-140. On these sites, remedial investigation/feasibility studies (RI/FS) are scheduled to be completed within 18 months of signing the order or decree and subsequent remedial actions will also follow the requirements of WAC 173-340-140. The department may extend a deadline if the circumstances at a site merit a longer timeframe. All changes in schedules will be published in the Site Register. The decision to designate these sites as high priority does not imply that persons associated with them are liable under Chapter 70.105D RCW. For additional information about a particular site contact the person indicated in each regional office.

### CENTRAL REGION

Contact Person: Tony Grover (509) 575-2440

COUNTY	SITE NAME	LOCATION ADDRESS	NEAREST CITY	START DATE
Shelan	Cascade Helicopter	E. Sullivan St & Airport Rds	Cashmere	9/91 *
Kittitas	Bingo Fuel Stop	Exit 101, Interstate 90	Thorp	8/1/92 *
Yakima	Manhole 34	Yakima Hwy & 6th Street	Sunnyside	11/91 *
Yakima	Richardson Airways, Inc.	Yakima Municipal Airport	Yakima	7/1/92 *
Yakima	Tiger Oil (24th & Nob Hill)	2312 W. Nob Hill Blvd.	Yakima	10/31/91 *
Yakima	Yakima Valley Spray Co.	1122 S. 1st St.	Yakima	4/1/92 *

### EASTERN REGION

Contact Person: Flora Goldstein (509) 456-7693

COUNTY	SITE NAME	LOCATION ADDRESS	NEAREST CITY	START DATE
Adams	Burlington Northern-Othello	Wheeler Street	Othello	3/91 *
Adams	Soil & Crop	101 W. 1st & Broadway	Othello	6/91 **
Franklin	Port of Pasco	Ainsworth & West 9th	Pasco	10/92 *
Grant	Vista Corner Texaco	640 N. Stratford Road	Moses Lake	11/92 **
Stevens	Whitten Oil - Exxon	NE Corner of Main & Dominion	Colville	10/23/91 *

### NORTHWEST REGION

Contact Person: Mike Gallagher (206) 649-7054

COUNTY	SITE NAME	LOCATION ADDRESS	NEAREST CITY	START DATE
King	BNR - Roundhouse (Skykomish Train Yard)	Burlington Northern Rail Yard	Skykomish	9/92 *
King	Landsburg Mine-Rogers Seam	Kent-Kangley Rd. & 268th Ave	Black Diamond	2/92 *
King	LIDCO/Liquid Waste Disposal	7113 S. 196th	Kent	7/90 *
King	Slag Disposal/Beckwith Prop.	S. 218th St. & 88th Ave. S.	Kent	1/92 *
Snohomish	Everett Smelter	Hwy 99 & E. Marine View Dr.	Everett	5/92 *
Snohomish	Unocal - Edmonds Bulk Plant	11720 Unoco Road	Edmonds	1/93 *
Snohomish	US-Defense Fuel Supply Point	1 Front St. (by Loveland)	Mukilteo	8/90 *

\* Date an order or a consent decree has been signed or is anticipated.

\*\* As Ecology is conducting remedial activities, no consent decree or order is required.

# SITE REGISTER

August 25, 1992

## HIGH PRIORITY SITES for REMEDIAL INVESTIGATION/FEASIBILITY STUDY by REGION

### NORTHWEST REGION (Cont.)

Contact Person: Mike Gallagher (206) 649-7054

COUNTY	SITE NAME	LOCATION ADDRESS	NEAREST CITY	START DATE
Whatcom	Trans Mountain Oil Pipeline - Laurel Pump Station	1009 E. Smith Road	Bellingham	10/91 *

### SOUTHWEST REGION

Contact Person: Megan White (206) 753-0147

COUNTY	SITE NAME	LOCATION ADDRESS	NEAREST CITY	START DATE
Clark	Boomsnub Corporation	7608 NE 47th Avenue	Vancouver	11/90 *
Clark	Vancouver Wells	4th Plain & Grand/Wash. St.	Vancouver	6/91 *
Lewis	Centralia Landfill	1411 South Tower	Centralia	4/92 *
Pierce	Cascade Timber #3 - Port of Tacoma	Thorne Road	Tacoma	10/91 *
Pierce	Cascade Timber #3 - US Oil	Maxwell Way - Between Port of Tacoma Road & Thorne Road	Tacoma	10/91 *
Pierce	Dupont-Weyerhaeuser	1000 Barksdale Avenue	Dupont	6/91 *
Pierce	Murray Pacific #1	3502 Lincoln Avenue East	Tacoma	9/91 *
Thurston	Fourth Street Mobil	1105 East Fourth Avenue	Olympia	9/92 *

\* Date an order or a consent decree has been signed or is anticipated.

\*\* As Ecology is conducting remedial activities, no consent decree or order is required.

# SITE REGISTER

August 25, 1992

## HIGH PRIORITY SITES for SITE HAZARDOUS ASSESSMENTS by REGION

The following sites, designated as high priority for site hazard assessments (SHAs) by Ecology under WAC 173-340-140 and WAC 173-340-320, are scheduled to have SHAs beginning after 9/1/92, and completed within six months of their start date. The decision to designate these sites as high priority sites does not imply that persons associated with the site are liable under Chapter 70.105D RCW. For additional information about a particular site contact, the person listed for each regional office. Sites may be scheduled for further investigation at any time if the department determines that the site warrants expedited action.

### CENTRAL REGION

Contact Person: Mark Peterschmidt (509) 454-7840

COUNTY	SITE NAME	LOCATION ADDRESS	NEAREST CITY
Benton	New City Cleaners	747 Stevens Drive	Richland
Yakima	Circle "L"	809 Yakima Valley Highway	Yakima
Yakima	Maid O'Clover	1530 State Highway	Sunnyside

### EASTERN REGION

Contact Person: Patti Carter (509) 456-6167

COUNTY	SITE NAME	LOCATION ADDRESS	NEAREST CITY
Adams	Adams County Maintenance Shop	State Road 26	Othello
Grant	Duncan Crane Service, Inc.	11798 Wheeler Road NE	Moses Lake
Grant	Larson Substation, Grant County PUD	Stratford & 7th NE	Moses Lake
Spokane	Sicilia Trucking	N. 5523 Julia	Spokane
Spokane	Sparks & Buttercup Subdivision	12th & Eastern St.	Spokane
Walla	Pantorium Cleaners	10 E. Rose	Walla Walla

### NORTHWEST REGION

Contact Persons: Judith Aitken (206) 649-7135  
Elaine Atkinson (206) 649-7042

COUNTY	SITE NAME	LOCATION ADDRESS	NEAREST CITY
King	Asco Processing, Inc.	424 N. 35th St.	Seattle
King	Widing Transportation	24300 Pacific Highway South	Kent
Kitsap	Olympic View Landfill	10015 SW Barney White Road	Port Orchard
Snohomish	Lynnwood Plating	2107 196th St. SW	Lynnwood
Snohomish	Rubatino's Truck Care	2730 Harrison Ave.	Everett

### SOUTHWEST REGION

Contact Person: Dick Heggen (206) 586-8618

COUNTY	SITE NAME	LOCATION ADDRESS	NEAREST CITY
Pierce	Milton Well #3	Porter Way & Fife Street	Milton
Pierce	Nalley's Fine Foods	S. 35th & South Lawrence	Tacoma
Pierce	WSU - Buckley Farm	2000 Collins Road	Buckley

# SITE REGISTER

\* Phone numbers and addresses are listed below for Ecology offices.

## CENTRAL REGION

106 S. 6th Avenue  
Yakima, WA 98902-3387  
(509) 575-2491

This section investigates, oversees and supervises cleanup of contaminated sites in these counties: Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima.

## EASTERN REGION

N. 4601 Monroe  
Suite 100  
Spokane, WA 99205-1295  
(509) 456-6310

This section investigates, oversees and supervises cleanup of contaminated sites in these counties: Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman.

## HANFORD PROJECT

P.O. Box 47600  
Olympia, WA 98504-7600  
1-800-321-2008

This project's primary duties include providing state oversight of the Hanford cleanup. They are also responsible for permitting and compliance with the state solid waste, hazardous waste, and water quality laws at the Hanford sites.

## INDUSTRIAL SECTION

2404 Chandler Court SW  
Suite 260  
Olympia, WA 98502  
(206) 586-1074

This section investigates, oversees and supervises cleanup of contaminated sites at major pulp and paper mills, aluminum smelters and oil refineries, statewide.

## NORTHWEST REGION

3190 160th Ave SE  
Bellevue, WA 98008-5452  
(206) 649-7000

This section investigates, oversees and supervises cleanup of contaminated sites in these counties: Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom.

## POLICY AND TECHNICAL SUPPORT SECTION

P.O. Box 47600  
Olympia, WA 98504-7600  
(206) 438-3000

This section's primary duties include regulation and policy development and providing program-wide technical support.

## SITE CLEANUP SECTION

P.O. Box 47600  
Olympia, WA 98504-7600  
(206) 438-3000

This section's primary duties are to investigate, oversee and supervise cleanup of hazardous waste sites which are on the federal superfund list (NPL). The Federal Facilities' unit of this section addresses NPL sites on federal facilities and state sites at the same facilities.

## SOUTHWEST REGION

7272 Cleanwater Lane SW  
P.O. Box 47775  
Olympia, WA 98504-7775  
(206) 753-2353

This section investigates, oversees and supervises cleanup of contaminated sites in these counties: Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum.



# GLOSSARY

## SITE STATUS DEFINITIONS

### **Awaiting Further Remedial**

**Action:** Only a Site Hazard Assessment has been done on the site.

### **Remedial Action in Progress:**

Ecology has oversight. This can include sites undergoing: 1) Remedial Investigation/Feasibility Study; 2) Interim Action: Any remedial action that partially addresses the cleanup of a site; or 3) Cleanup Action (active construction).

**Cleanup Action Conducted:** This category includes sites where all cleanup construction has been completed, but various levels of operation/maintenance/monitoring continue to be performed at the site.

### **Independent Remedial Action:**

This category includes all sites with independent remedial actions underway currently, or completed but work not verified by the department. Once the department is ready to proceed with action at a site, this category will no longer apply and the site will be moved to an appropriate category.

**Enforcement Order:** A legal document issued by the department requiring remedial action. Failure to comply with an enforcement order may result in substantial liability for costs and penalties. \*

**Hazardous Site List:** A list of ranked sites that require further remedial action.

**Independent Cleanup Action:** Any remedial action without department oversight or approval and not under an order or decree.

### **National Priorities List (NPL):**

Environmental Protection Agency (EPA) list of hazardous waste sites identified for possible long-term remedial response with funding from the federal Superfund Trust Fund. There are currently 44 sites in Washington State officially designated as Final NPL sites.

**Remedial Action:** Any action to identify, eliminate, or minimize any threat posed by hazardous substances to human health or the environment, including any investigative and monitoring activities of any release or threatened release of a hazardous substance and any health assessments or health effects studies.

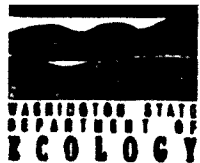
**Site Hazard Assessment (SHA):** An assessment to gather information about a site to confirm whether a release has occurred and to enable Ecology to evaluate the relative potential hazard posed by the release. If further action is needed, an RI/FS is undertaken.

**State Remedial Investigation/Feasibility Study (RI/FS):** A study to define the extent of the problems at a site and evaluate alternative cleanup actions. A comment period on the final report is required. Ecology selects the preferred alternative after reviewing these comments.

### **Washington Ranking Method**

**(WARM):** Method used to rank sites placed on the hazardous sites list. A report describing this method is available from the department.

\* Orders and decrees are subject to public comment. If an order or decree is substantially changed, an additional comment period is provided.



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